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Abbreviations adopted in this manual:

- **PC**: Hardware (personal computer) used in the CR-IR346CL controller
- **CL**: CR-IR346CL
- **RU**: CR-IR346RU
- **OS**: Operating System (Windows 2000)
- **AP**: Application Software

Introduction

■ Notes on the Use of the Service Manual

1. **This document is intended to be read by the service personnel of Fuji Photo Film Co., Ltd. or authorized agent who is commissioned by Fuji Photo Film Co., Ltd. to perform servicing tasks.**

   Under these circumstances, no one is allowed to perform the following actions without the prior written permission from Fuji Photo Film Co., Ltd.

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   - Disclosing this document, in whole or in part, to a person other than the authorized service personnel
   - Lending or transferring this document, in whole or in part, to a third party

2. **Due care must be exercised when handling this document because it contains product internal structure descriptions and other confidential information.**

   * When the contents of this document need be changed, the information about such changes will be conveyed using “Engineering Change Notice (ECN)”.

     The “Engineering Change Notice (ECN)” must also be handled using the same care as for this document.

3. **Due to a product development schedule, the product specifications and available options/variations prevailing at the time of the release of this document may differ from the descriptions given in this document. In such an instance, a Service Engineering Information will be issued as needed to furnish latest information about inapplicable specifications and components.**

4. **If you have any doubt about the contents of this document or find errors, contact your local Fuji Film representative.**

■ Warning and Cautionary Information

Precautions during the service work are indicated by the following terms and symbols.

WARNING	Serious injuries or death may result if this precaution is not observed. Damage of the unit and customer database may also occur.
CAUTION	Mild or moderate injuries may result if this precaution is not observed. Serious malfunction (which may be unrepairable or difficult to repair) may also occur.
IMPORTANT	Abnormal operations (easy to repair) may result if this precaution is not observed.
NOTE	Indicates items which require particular attention.
REFERENCE	Explanation of related items and terms.

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■ Precautionary Labels

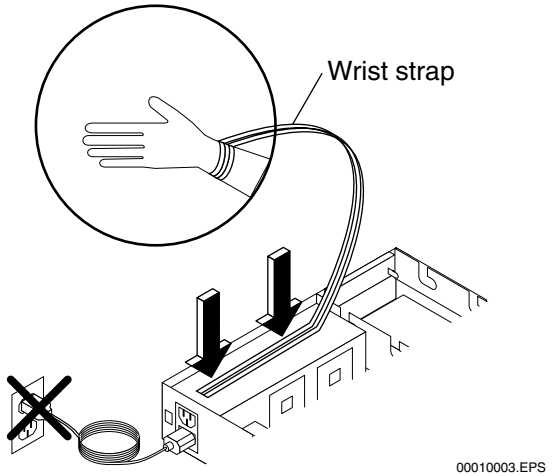
To prevent danger to humans and serious accidents, observe the following.

◆◆ WARNINGS ◆◆

- *Unless indicated otherwise, be sure to turn off the power switch before maintenance work, and disconnect the power plug from the outlet. Even if the power switch is OFF, 100 to 240VAC (differs according to machine specifications) will still be supplied to the primary input terminal of the unit if the power cable is connected, and this may result in possible electric hazards.*
- *As neckties, scarves, and necklaces may get caught in the unit during work, remove these items or take precautions against such accidents.*
- *Never modify the unit unless specified otherwise. Modification of the safety unit (interlock, breaker, temperature fuse, etc.) will cause serious problems as it is not only dangerous but violates the related laws and regulations.*

◆◆ CAUTIONS ◆◆

- *The grounding wire must be connected.*
- *To avoid damages to the parts/units due to static discharge, use a wrist strap putting one end on your wrist and the other end on the grounded section of the equipment, as illustrated below.*
- *When doing so, make sure to unplug the line cord plug to avoid electrical hazards if using a PC in which the power is energized to the internal power supply or circuits when it is inserted into an outlet.*



Safety Precautions

■ Safety Precautions (Control Unit)

Follow the precautions below when installing, using, and servicing the control unit (PC).

See the User's Guide provided for details on the control unit.

- Input voltage : 115VC or 230V
- Electric hazard prevention :
  The power cord of the control unit and CRT monitor uses a 3-pin plug. Connect it to a properly grounded power outlet. When using an extension cord, use a 3-line type with a grounding pin.
- Place of installation : Avoid places where dust and foreign particles may enter inside through the computer opening. Avoid installing near heaters and heat sources.
- Precautions when working on internal parts of the control unit :

  (1) Turn off the power of the PC, CRT, and other peripheral devices.

  (2) Disconnect the power cord from the outlet to prevent electric hazard.

  (3) Open the I/O panel on the rear of the PC, touch the metallic part to fully discharge body static electricity before accessing.

  (4) When removing the board and memory module, etc., hold them without directly touching the connectors and pins and place them in a static electricity prevention package.

■ Safety Precautions (CRT monitor)

◆◆ WARNING ◆◆

High voltage is applied inside the CRT monitor.

To prevent electric hazards and danger, the CRT internal parts cannot be accessed.

The CRT monitor does not consist of parts serviceable by the service engineer.

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CR-IR346/348CL Service Manual

MT: Machine Troubleshooting

Control Sheet

Issue date	Revision number	Reason	Pages affected
10/20/2000	00	New release (FM2862)	All pages
12/10/2000	00	Revision (FM2950)	Pages I, II, 1, 6, 8, 10, 13, 15, 16
04/10/2001	01	Previous Chapter C “Error Information/Service Parts” divided and modified (FM2951)	All pages
05/30/2001	02	Revision for software version A02 and GX150 (FM3027)	I, II, 5, 6, 12, 17, 21
08/30/2001	03	Revision for software version A04 (FM3125)	I, II, 5, 18

1. Error Code Table

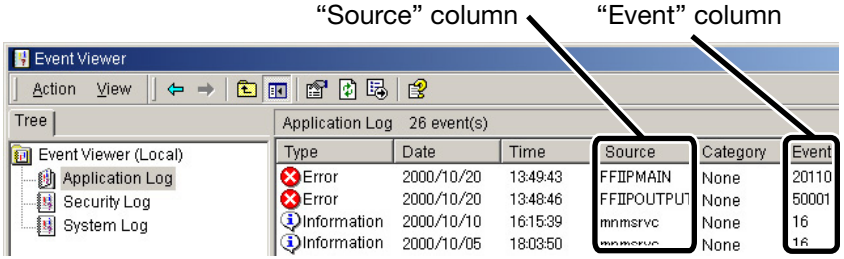
For errors occurring while the CL-AP is being used, take appropriate countermeasures following the error codes (and error messages) listed herein.

☞ See “2. Using the Event Viewer”.

1.1 Referring to Error Messages

- Event (error code) and event source name

  When an error occurs, use the event and event source name information to separate the assumed causes.
  The event and event source name are displayed in the “Source” and “Event” columns of the Event Viewer main window shown below.



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- Meaning of the event (error code)

  A five-digit code displayed in the “Event” column implies the following.

A	B	C	C	C

A: Error-detected process
- 1: Module used in common in the system
- 2: Main process
- 3: Input process
- 4: QA unit
- 5: Output process
- 6: FINP process
- 7: UTILITY process

B: Error level (See the Table Error Levels.)

CCC: For error level 0 or 1, this section of the error code is provided so that it is unique in the process. For error level 2, 3 or 9, this section is unique in the control.

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Table Error Levels

Error Level	Description
0: Fatal Error An error that fully disables system operation.	A serious, fatal problem that absolutely disables the system's stable operation. • DB access error • System file access file error
1: Warning An error that enables the system's operation to be continued after user intervention.	Inevitably involves user notification and the system operation can be continued by the user intervention. Causes of this error type can be assumed as follows. • Data file access error • Disk full • Faulty LP board • No response from the target destination for connection
2: Warning An error that enables the system's continuous operation.	A slight error that does not require user notification. The system operation can be continued with no user intervention. The following causes can be assumed. • Unspecified data entered from networks. (An error implying that the system can be continued being substituted by the default).
3: Information Simple information	Information that the system development section wishes to keep.
9: Logical Error Defective program	An error presumably caused by defective program. Basically, this error does not occur at user's site. This error type has been aborted by the RU previously. The following causes can be assumed. • Unspecified value returned from the method • Failure in securing memory • Failure in acquiring Windows resources • Error returned from the Windows API

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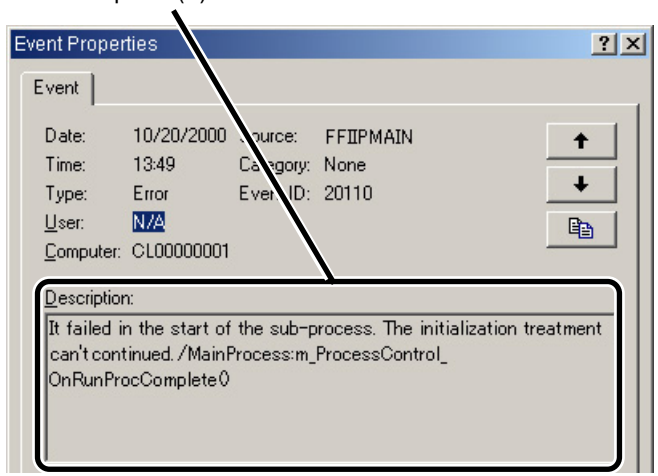
● Message

The message is for describing errors and is displayed in the "Description (D)" column of the Event Viewer's Properties window shown below.



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- Identifying the problem cause when two or more errors encountered have the same error code

  The same error code may appear on the display even when the error cause varies. If you encounter such a situation, note both the error code and error message to identify the error cause.

There are two or more occurrences of the same error code (event).

Event	Event Source	Description	Causes
13005	FFCustom MsgBox	MessageBox Dialog Show Error.	A message box could not be displayed. The problem is attributable to resource inadequacy or system instability .
13005	FFIdCon nection Watch	Recv error(%1).%n[%2]	The connection to the RU was closed or an error occurred in the connection.
13005	FFIdFilm Mark	It failed that [%1] getsthe connection string of FilmMarkDB	The “FilmMarkDB” key was not found in Directory.ini.
13005	FFId Menu Change	[%1] failed in the liberating processing of the display group data acquisition	The connection to the display group table was not successfully closed.
13005	FFIdPatIn foInput	It failed that [%1] gets the SexMale caption	The “LangStrDB” key was not found in Directory.ini or the ID “30705” was not registered in the character string database.
13005	FFId RuMain Control	Recv error[%1]	The connection to the RU was closed or an error occurred in the connection.
13005	FFIdRu Main Control	Magnetic card variation error[%1]	The employed magnetic card type was different than specified.
13005	FFIipInput	It failed that [%1] connects to STR DB	The connection character string was not properly registered for the “LangStrDB” key in Directory.ini.
13005	FFIpcInf	[%1] It failed in _beginthread(%2).	Main thread creation was no successful. The problem is attributable to resource inadequacy or system instability.

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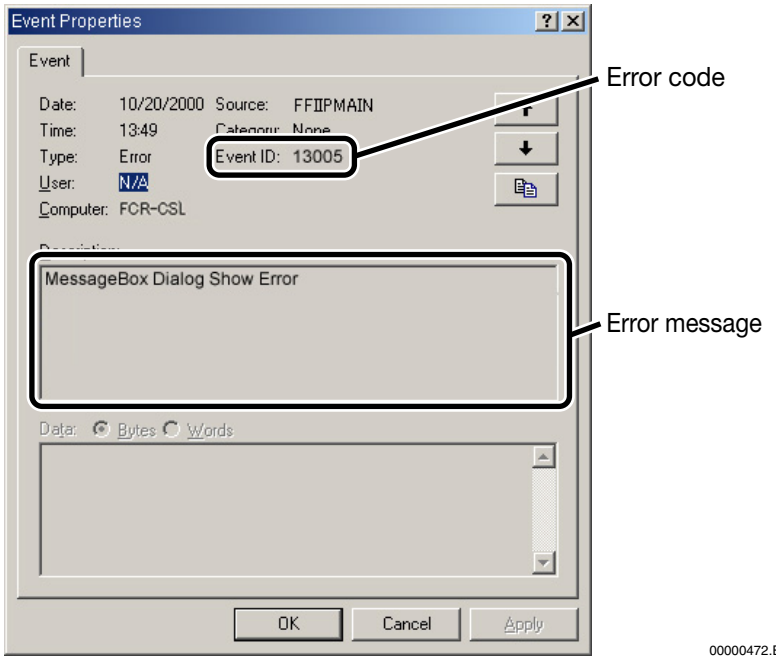
To identify the error cause, perform the following procedure:

1. Start the Event Viewer.

2. Open the Event Properties window.

☞ For details the procedure for opening the above window, see “2.4 Details of Events”.

3. See both the error code and error message, and then locate the associated error description in “Appendix CL Error Message Table”.



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1.2 Precautions

- An error such as incorrectly entered image processing parameters will not be handled as an error.
- An error code starting with “9” (e.g.: 9XXXX) is that generated by the RU.
- The correlation between the error level (the second digit of an error code number) of CL-generated errors and that assumed by Windows (Event Viewer) is as follows.

Error level	Error level assumed by Windows
0 : Fatal Error	EVENTLOG_ERROR_TYPE
1 : Warning	EVENTLOG_WARNING_TYPE
2 : Warning	EVENTLOG_WARNING_TYPE
3 : Information	EVENTLOG_INFORMATION_TYPE
9 : Logical Error	EVENTLOG_ERROR_TYPE

1.3 Error Message

☞ See “Appendix (Appx MT A-1–) CL Error Message Table (A00)”.

2. Using the Event Viewer

The Windows 2000 Event Viewer is used for checking details of errors occurring with Windows 2000 or the CL-AP.
How to use the Event Viewer is described herein, together with the startup procedures.

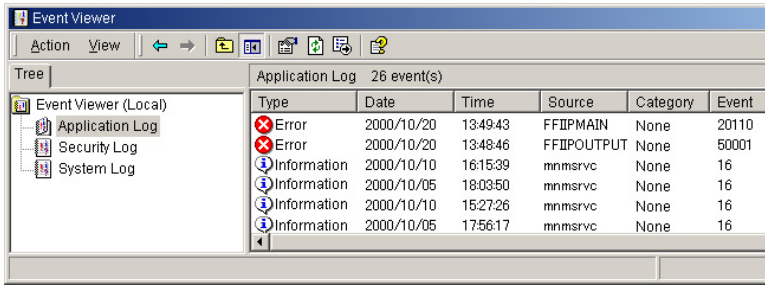
2.1 Overview of the Event Viewer

A variety of information items, such as resource information, system operation status and application errors occurring with Windows 2000, are recorded (logged) to the Event Viewer.

Causes of errors that occur can be specified from the following logs.

- Application Log
- System Log
- Security Log

The CL-AP error information is recorded to the Application Log.
To display the CL-AP error information, select the “Application Log” from the tree menu of the Event Viewer main window shown below.


Event Viewer
Action View
Tree
Event Viewer (Local)
Application Log
Security Log
System Log
Application Log 26 event(s)
Type Date Time Source Category Event
Error 2000/10/20 13:49:43 FFIIPMAIN None 20110
Error 2000/10/20 13:48:46 FFIIPOUTPUT None 50001
Information 2000/10/10 16:15:39 mnmsrvc None 16
Information 2000/10/05 18:03:50 mnmsrvc None 16
Information 2000/10/10 15:27:26 mnmsrvc None 16
Information 2000/10/05 17:56:17 mnmsrvc None 16

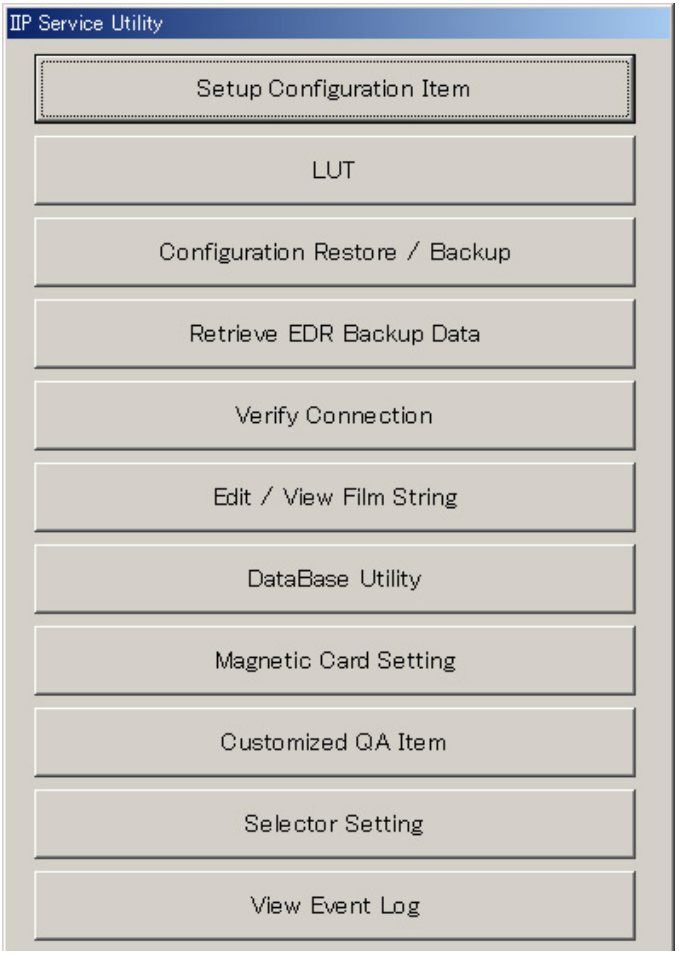
00000371.EPS

2.2 Starting the Event Viewer

1. Start up the Service Utility mode.

☞ For details of Service Utility mode startup, see “1. Starting/ Exiting the Service Utility” in “MU: Maintenance Utility”.

➔ The “IIP Service Utility” window opens.



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2. Click View Event Log, the 11th button from the top.

➔ The Event Viewer main window opens.

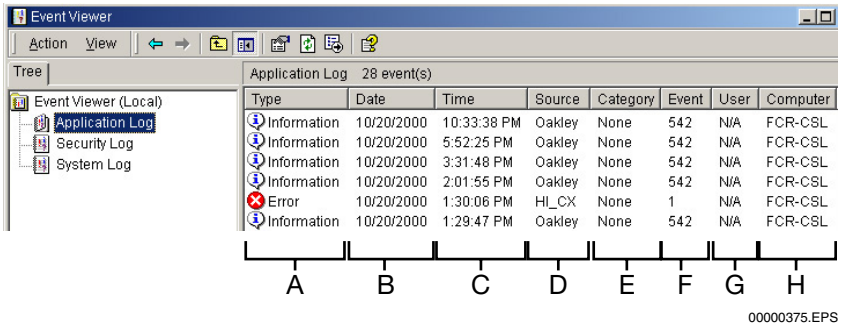
➥ *REFERENCE*

Use the following procedures if you cannot start up the Event Viewer from the Service Utility mode.

1. *From the "Start" menu at the lower left of the desktop window, select "Settings" and then "Control Panel" to display the "Control Panel" window.*
2. *Double-click "Administrative Tool" to display the "Administrative Tool" window.*
3. *Double-click "Event Viewer". The Event Viewer starts up.*

2.3 Configuration and How to View the Event Viewer

Explained herein are the Event Viewer's screen configuration (shown below) and how to view it.



00000375.EPS

A Types:

Symbol	Meaning	Description
	Error	Displayed when a fatal error, such as failure in device driver or service startup, or loss of data, occurs while the system is running.
	Information	Displayed to indicate that the system has started normally being successful in startup of services or remote access.
	Warning	Displayed to indicate that the Warning can be attributable to the cause of the error that has occurred.

00000382.EPS

B Date : The date when an event occurs.

C Time : The time when an event occurs.

D Source : The application that wrote an event.

E Category : Event category

F Event : Event ID

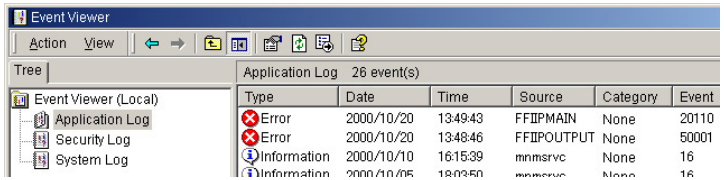
G User : The user who has been logged in when an event occurs. "N/A" will be displayed if software that does not specify the user's name is used.

H Computer : Computer name used when an event occurs.

2.4 Details of Events

Described below are the procedures used for checking detailed event information.

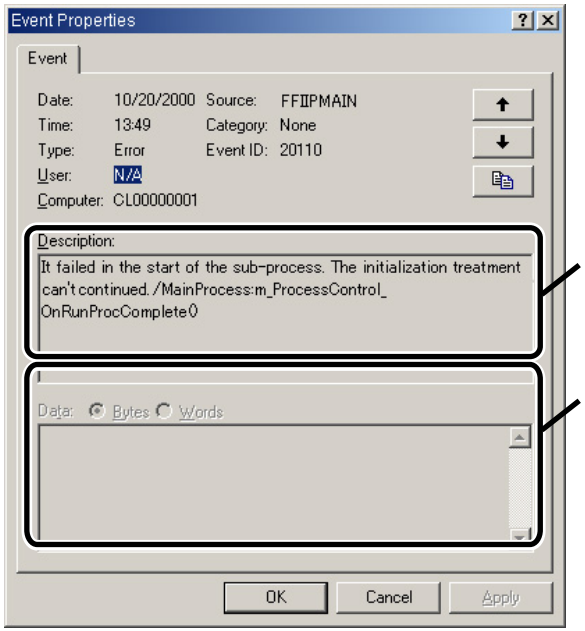
1. On the Event Viewer main window, double-click the log you wish to display.



00000376.EPS

➔ The “Event Properties” window opens.

2. Check detailed information of an event.



“Description (D)” column

“Data (T)” column

00000377.EPS

Description (D): Displays detailed information of an event.

Data (T): Displays the location where an event occurs, using the information based on the number of bytes or words.

3. Click OK.

➔ The system return to the “Event Viewer” window.

2.5 Saving the Event Log

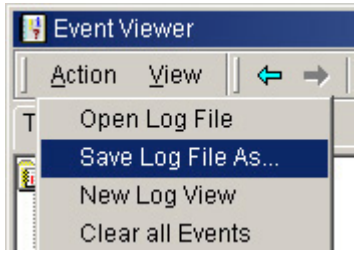
How to save event logs is explained below.

◆ NOTE ◆

Be sure to have a DOS/V-formatted FD ready to use for saving event logs.

1. Insert the FD used for saving event logs into the FDD.

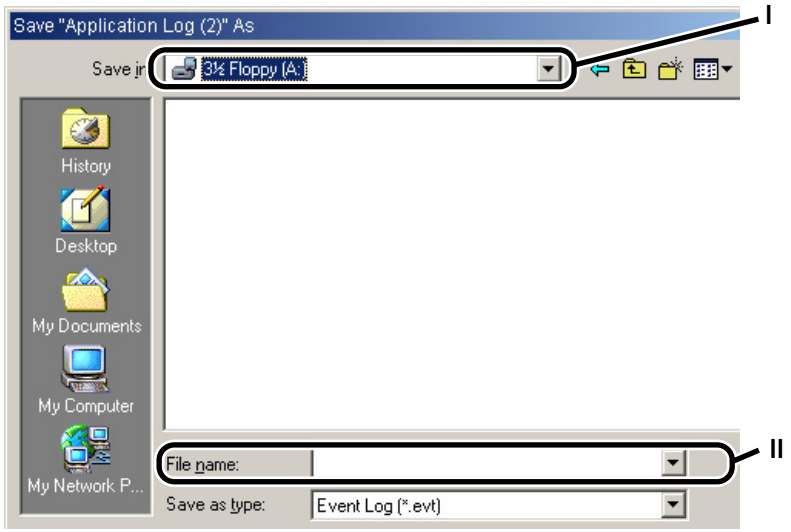
2. From the “Action” menu of the Event Viewer main window, select “Save Log File As...”.



00000378.EPS

➔ The “Name the Log File and Save” window opens.

3. Select or enter the following



00000379.EPS

I. Select “3½ Floppy (A:)”.

II. Enter the filename (e.g.: log).

➥ REFERENCE

If “Text (Tab Separation)” is selected for “Save as Type”, event logs can be saved as text files.

4. Click Save.

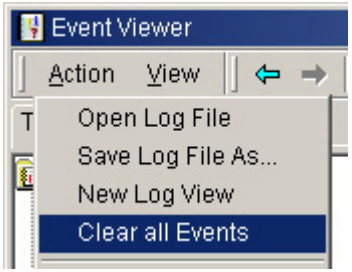
➔ The system returns to the “Event Viewer/Application Log” window.

5. Check to see that the FDD’s access lamp has went off and remove the FD from FDD.

2.6 Deleting the Event Log

How to delete event logs are explained below.

1. **From the “Action“ menu of the Event Viewer window, select “Clear all Events”.**

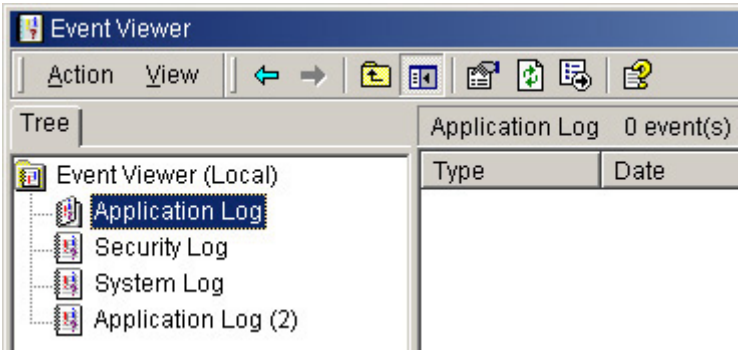


00000380.EPS

➔ A window opens prompting you to confirm the data to be saved.

2. **Click** Cancel **.**

➔ The system returns to the “Event Viewer/Application Log” window, deleting thus all event logs..



00000381.EPS

2.7 Quitting the Event Viewer

How to quit the Event Viewer is explained below.

1. **Click ✕ of the Event Viewer main window.**

➔ The system return to the desktop window.

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3. Information Useful for Error Recovery

- CL/RU connection recovery procedure to be performed upon RU memory initialization

  This procedure is used to restore the RU IP address to its default setting to recover the connection to the CL. Use this procedure when, for instance, the RU is invisible to the network.

- Typical procedure for achieving recovery from an LP (local printer) printout generation failure

  This section describes the troubleshooting procedure to be performed in the event of an LP printing failure.

- Messages displayed upon an RU-AP/RU-Config update

  When the RU-AP and RU-Config are written into the RU's FLASH ROM, various messages appear on the CL monitor. Such messages are detailed in this section.

- Precautions to be observed during the use of output options

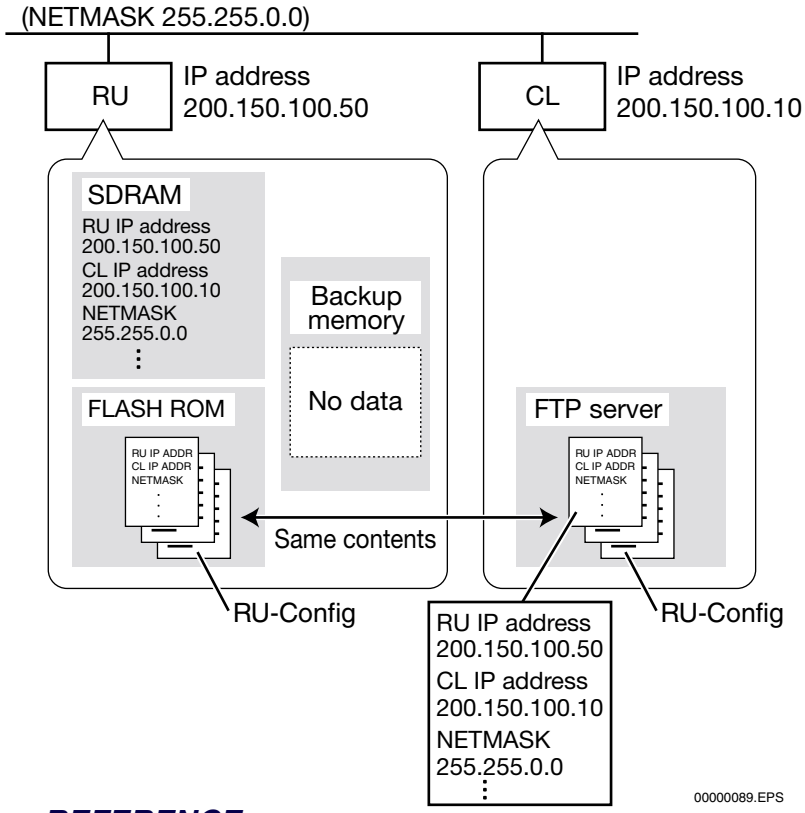
  This section offers a troubleshooting guide that you should follow when the error code 50001 (output option setup error) appears on the display.

3.1 CL/RU Connection Recovery Procedure to be Performed upon RU Memory Initialization

This section explains about the procedure for recovering the connection to the CL when the memory is initialized by performing the memory initialization procedure (<Erasure process> switch activation + RU power ON) at the RU.

☞ See "5. Relationship between RU (CR-IR346RU) and CL" in "MD: Machine Description".

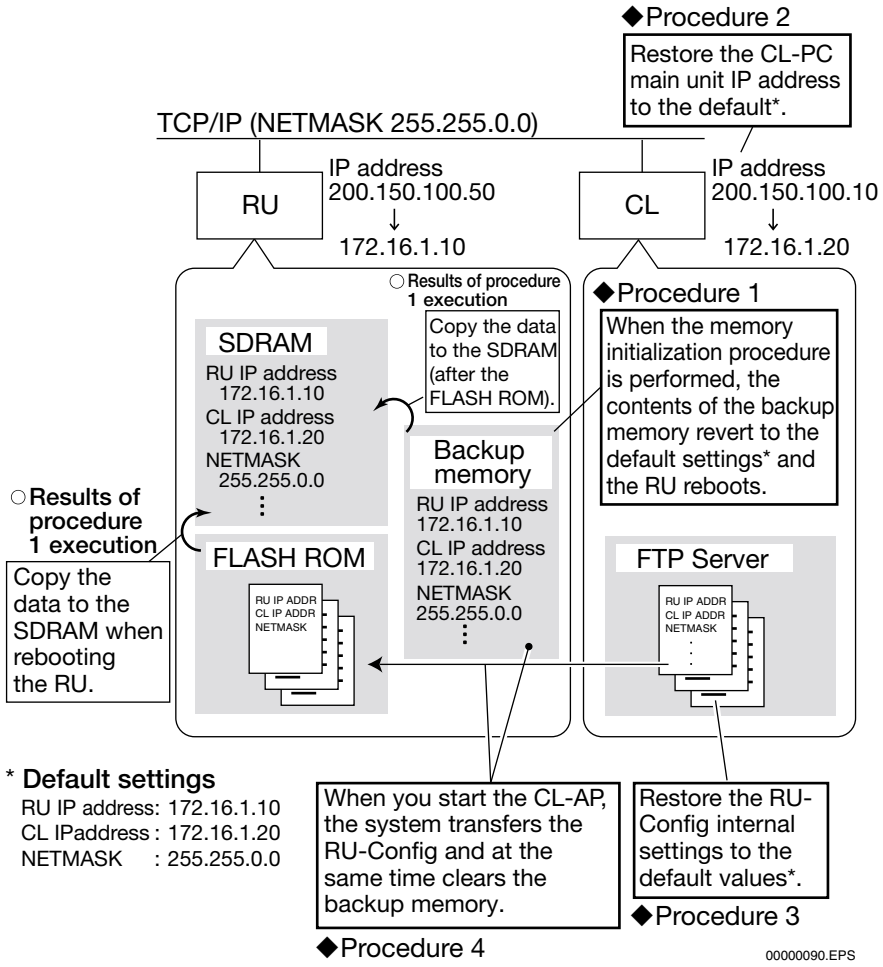
This section explains about the recovery procedure to be performed in situations where the CL and RU are in the following states:



➥ *REFERENCE*

The SDRAM IP address is used as the IP address for the RU.

■ Recovery sequence overview



◆ *NOTES* ◆

- *The communication between the CL and RU can be restored to normal by performing Procedures 1 and 2.*
- *The RU-Config in the FLASH ROM can be restored to the default settings by performing Procedures 3 and 4.*
- *If the contents of the backup memory are cleared, the SDRAM will not be overwritten on a reboot.*

■ Details of "◆ Procedure 1"

1. **Hold down the RU's <Erasure process> switch, turn ON the power switch.**

<u>You have to still hold down the <Erasure process> switch at this stage.</u>

➔ The RU is rebooted.

2. **Verify that the primary erasure LED on the RU panel comes on (in about 7 seconds).**

◆ *NOTE* ◆

If the primary erasure LED does not come on, the initialization process is not completed. In such an instance, perform steps 1. and beyond again.

3. **Release the <Erasure process> switch.**

■ Details of "◆ Procedure 2"

1. Double-click

on the CL desktop.

➔ The "My Computer" window opens.

2. Double-click

.

➔ The "Control Panel" window opens.

3. Double-click

.

➔ The "Network and Dial-up Connections" window opens.

4. Double-click

.

➔ The "Local Area Connection" window opens.

5. Click

.

➔ The "Local Area Connection Properties" window opens.

6. Choose

and then click

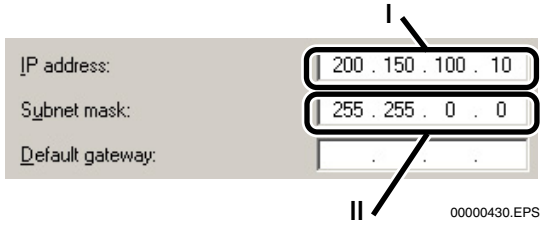
.

➔ The "Internet Protocol (TCP/IP) Properties" window opens.

7. Choose

.

8. Perform the following setup steps:



I. Change this entry to the default CL IP address (176.16.1.20).

II. Change this entry to the default subnet mask (255.255.0.0).

9. Click

.

➔ You are returned to the "Local Area Connection Properties" window.

10. Click

.

➔ You are returned to the desktop.

➥ *REFERENCE*

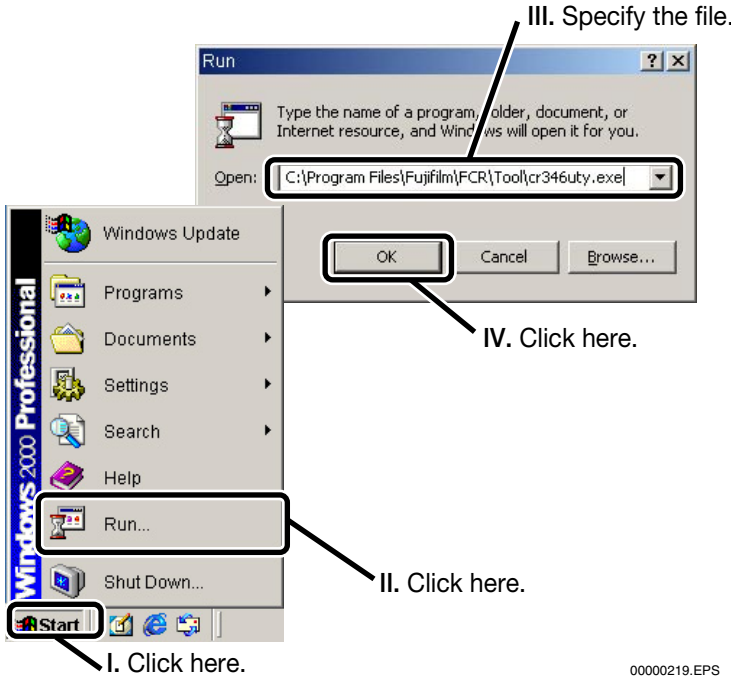
When a dialog box opens to prompt for a restart, click [Yes].
This causes the OS to restart and automatically starts up the CL-AP.

■ Details of "◆ Procedure 3"

1. Start the RU M-Utility as directed below:

◆ NOTE ◆

Make sure that the CL-AP, Service Utility, or other AP or Explorer is not running. If any such application is running, quit it.



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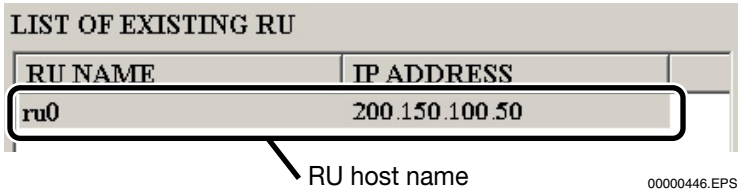
➔ The RU M-Utility main menu opens.

2. In the "LIST OF EXITING RU" field, click the host name of the RU whose configuration file is going to be edited.



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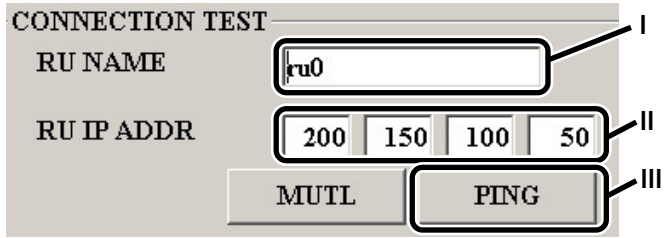
➔ The "EDIT CONFIGURATION" button text color changes from gray to black.

3. Use PING to verify the connection to the RU.



00000512.EPS

I. Enter the RU host name (ru0).

II. Enter the RU IP address (172.16.1.10).

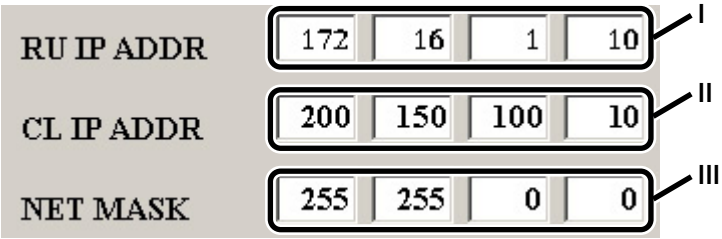
III. Click PING.

IV. Verify that the network connection is normal.

4. Click EDIT CONFIGURATION.

➔ The "READER UNIT SETTING" window opens.

5. Perform the following setup steps:



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I. Verify that the RU's default IP address is entered (172.16.1.10).

II. Switch to the CL's default IP address (172.16.1.20).

III. Switch to the default net mask (255.255.0.0).

6. Click SET.

➔ The system saves your setting entries and returns to the main menu.

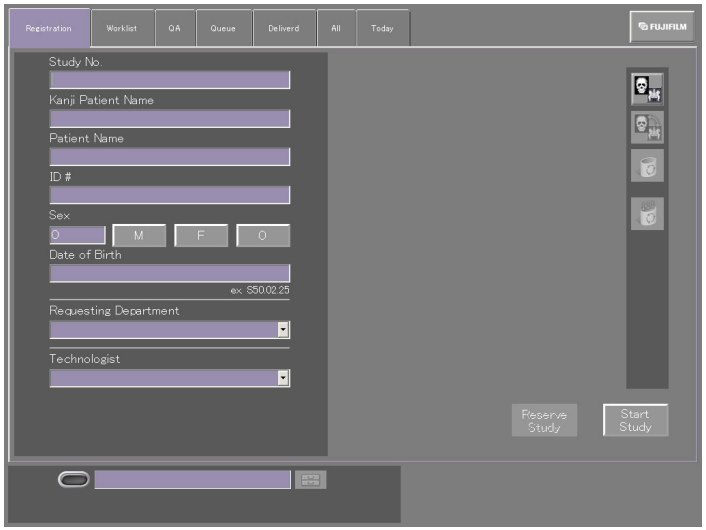
7. Click the ✕ mark at the upper right corner of the window.

➔ The system returns to the desktop screen.

■ Details of "◆ Procedure 4"

1. Click Start. Choose "Programs", "Fuji Film", "FCR".

➔ The CL-AP starts up in about one minute.



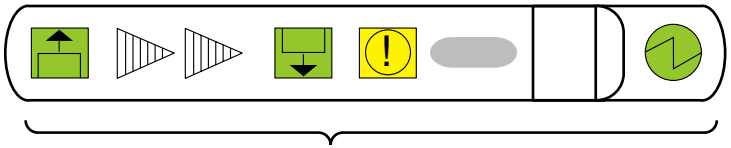
00000195.EPS

◆◆ CAUTION ◆◆

While the RU panel LEDs are illuminated, never turn OFF the RU power because the RU's CPU board may become damaged.

➔ After a while, all the LEDs on the RU panel come on.
A message appears on the CL monitor to indicate that the RU-Config is being updated. (While the update is in progress, the system repeats a single-beep and two-successive-beep cycle.)

● RU



All the LEDs on the RU panel glow. 00000196.EPS

● CL

A message appears to indicate that the RU-Config is being updated. 0000517.EPS

➔ The RU-Config update process ends.

2. Click REBOOT on the CL monitor.

➔ The RU restarts so that the updated RU-Config takes effect.
In several seconds, the "Console Warning" window appears on the CL.

◆ NOTE ◆

Do not touch any operating controls for a while.
The "Console Warning" window automatically disappears.

➔ The RU initialization message appears. In about one minute, the RU becomes operative.

3. Click FUJIFILM.

➔ A menu opens.

4. Hold down the <SHIFT> key and click Shut Down.

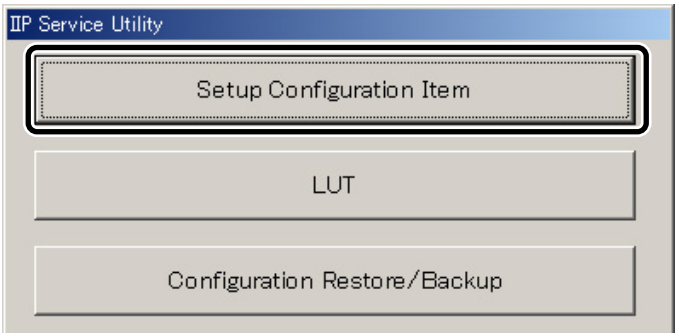
➔ The CL-AP exits.

■ Editing “NETWORK CONFIG”

Change the RU’s IP address that is entered from the CL’s Service Utility. If you do not change the RU IP address, an error (error code: 31382) occurs when an image is read.

1. **Start the CL’s Service Utility.**

2. **Click [Setup Configuration Item].**



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➔ The “Setup Configuration Item” window opens.

3. **Click the ⊞ sign within ⊞ NETWORK CONFIG.**

4. **Click the ⊞ sign within ⊞ ALL OTHER NODES and then choose ⊞ ru0.**

➔ The “HostName” window opens in the right-hand area of the currently displayed window.

5. **Note the IP address indicated in the**

field and change it to the RU’s IP address (172.16.1.10).

6. **Click** Apply

7. **From the “Config (F)” menu, choose “Save”.**

➔ A window opens, prompting you to confirm the setup data to be saved.

8. **Click** Yes

➔ The system saves the setup data.

9. **From the “Config (F)” menu, choose “Close”.**

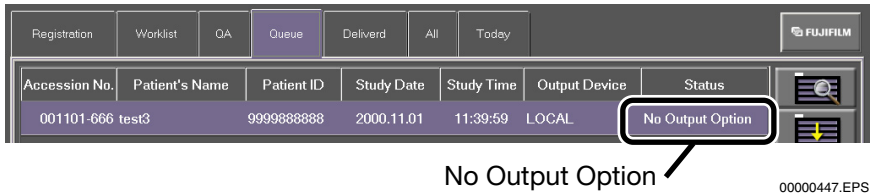
➔ The system returns to the “IIP Service Utility” window.

10. **Click [Exit Service Utility].**

➔ The system returns to the desktop screen.

3.2 Typical Procedure for Achieving Recovery from an LP (Local Printer) Printout Generation Failure

This section explains about the procedures to be performed when the "Status" field of the user window "Wait for Output" indicates the occurrence of the error "No Output Option" (see the window shown below).



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■ Preliminary checkout

First, conduct the following checks to verify the LP settings:

- Check whether the LP option key is installed.
- Check whether the PEI01A board is properly set and mounted.
- Check for an improper cable connection between the PEI01A board and printer.

■ Cause

If the "No Output Option" error is indicated when the above procedures are properly completed, it is conceivable that the PEI01A board driver may be improperly installed.

The PEI01A board driver is stored on the CL-AP's CD-ROM. Installing the CL-AP and starting the AP automatically installs the driver. However, if a different incompatible driver is already installed, starting the CL-AP does not automatically install the correct driver.

First of all, you should check whether the correct driver is installed as directed below.

■ Checking the PEI01A board device driver

1. Right-click

on the desktop and then choose "Properties".

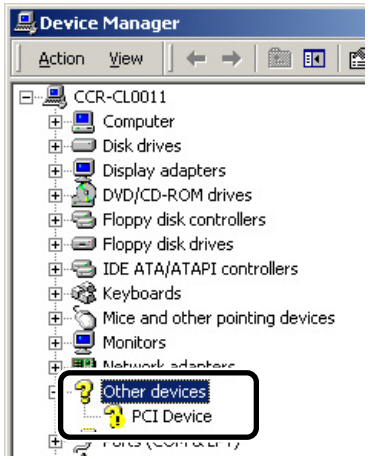
➔ The "System Properties" window opens.

2. Click the Hardware tab.

3. Click Device Manager... in the "Device Manager" area.

➔ The "Device Manager" window opens.

4. Note the hardware information about the PCI port.



No Good : Driver installation is not normally completed.

Good : Driver installation is normally completed.

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◆ *NOTE* ◆

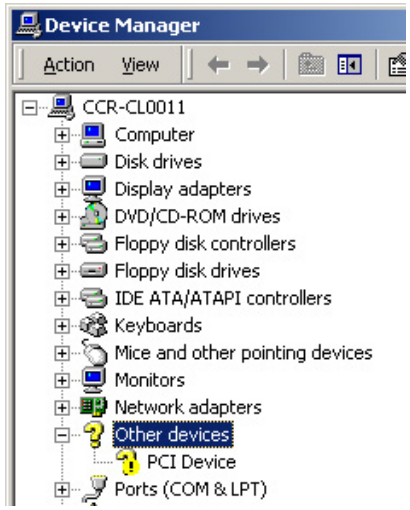
If the OS is installed with the PEI01A board mounted in the PC, the driver installation will not be successful causing a status where other improper drivers have been installed.

■ Deleting an invalid PCI device driver (marked "?")

1. In the "Device Manager" window, click the [+] mark to the left of "Other devices"

➔ "PCI Device" appears under "Other devices".

2. Click PCI Device and then choose "Delete" on the "Action" menu.



00000449.EPS

➔ The invalid driver named "PCI Device" is then deleted.

3. Exit the "Device Manager" and then restart the PC.

➔ The CL-AP starts up in about one minute. When it starts up, the PEI01A board driver (FUJIFILM Pei Device) is automatically installed.

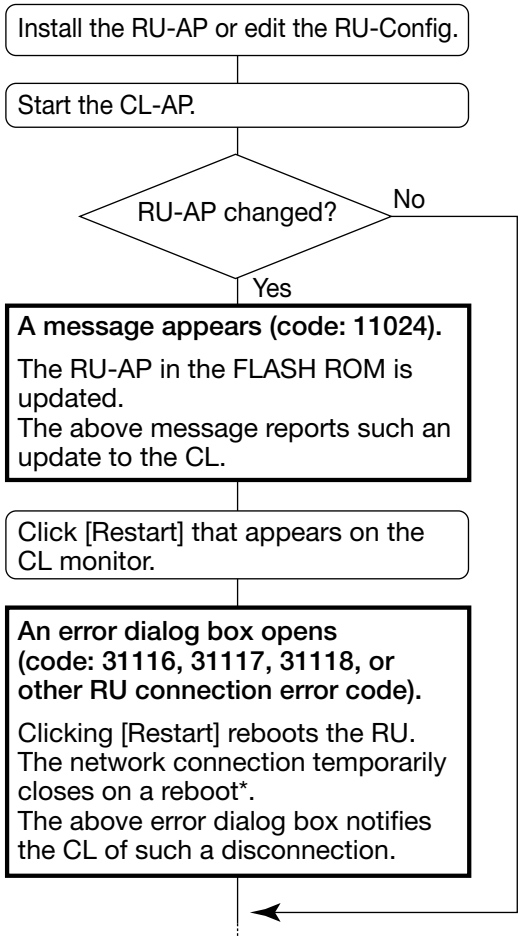
4. Verify that the driver is properly installed.

☞ See "■ Checking the PEI01A board device driver".

3.3 Messages Displayed upon an RU-AP/ RU-Config Update

This section describes the sequence that is followed after RU-AP installation or RU-Config editing and explains about the messages that appear on the display.

☞ For details on the data exchanged between the CL and RU, see "5. Relationship between RU (CR-IR346RU) and CL" in "MD: Machine Description".


Install the RU-AP or edit the RU-Config.
Start the CL-AP.
RU-AP changed?
No
Yes
A message appears (code: 11024).
The RU-AP in the FLASH ROM is updated.
The above message reports such an update to the CL.
Click [Restart] that appears on the CL monitor.
An error dialog box opens (code: 31116, 31117, 31118, or other RU connection error code).
Clicking [Restart] reboots the RU.
The network connection temporarily closes on a reboot*.
The above error dialog box notifies the CL of such a disconnection.

* The error code to be displayed varies with the disconnection timing.

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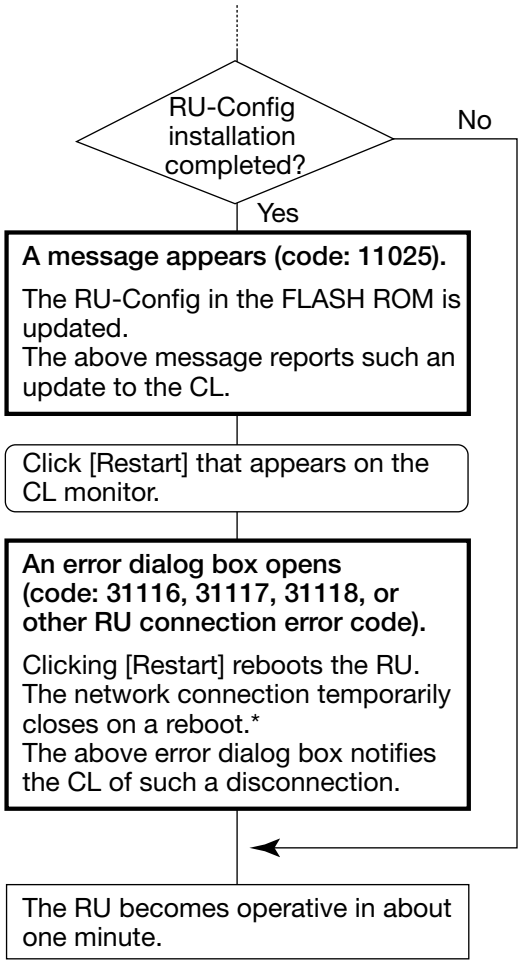
RU-Config installation completed?
No
Yes
A message appears (code: 11025).
The RU-Config in the FLASH ROM is updated.
The above message reports such an update to the CL.
Click [Restart] that appears on the CL monitor.
An error dialog box opens (code: 31116, 31117, 31118, or other RU connection error code).
Clicking [Restart] reboots the RU.
The network connection temporarily closes on a reboot.*
The above error dialog box notifies the CL of such a disconnection.
The RU becomes operative in about one minute.

* The error code to be displayed varies with the disconnection timing.

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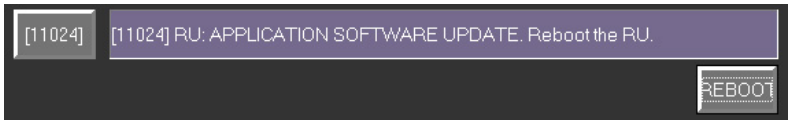
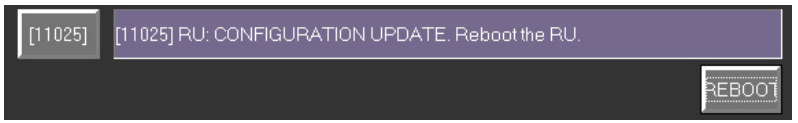
- Message window (code: 11024)



00000603.EPS

- Message window (code: 11025)



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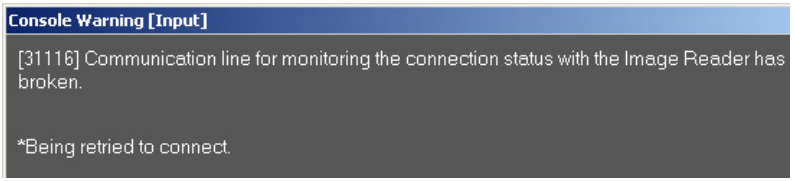
- Error dialog box (code: 31116, 31117, or 31118)


Console Warning [Input]
[31116] Communication line for monitoring the connection status with the Image Reader has broken.
*Being retried to connect.

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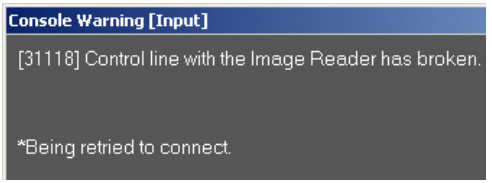

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3.4 Precautions to be Observed During the Use of Output Options

If an error message of the error code 50001 appears at CL-AP startup, check the settings for the following output options:

- IR346 DICOM CR STORAGE
- IR346 DICOM IM PROCESSED (processed image transmission)
- IR346 DICOM PRINT
- IR346 DMS NET-WORK IN-OUT
- IR346 LOCAL PRINT

The checks to be performed are detailed below:

Option key	Check
• IR346 DICOM CR STORAGE • IR346 DICOM IM PROCESSED • IR346 DICOM PRINT	Verify that the option key is installed, and then check whether SCU setup is properly completed for this equipment. The procedure is described below: 1. With the Service Utility, open the “Setup Configuration Item” window. 2. Open “NETWORK CONFIG” and then “THIS HOST (IIP)”. 3. Check that an AE whose “Role” is SCU is registered. If it is not registered, register it now. ☞ For detailed registration procedure descriptions, see “OE: Connecting the CL to Other Equipment”. IR346 DICOM CR STORAGE → See OE3. IR346 DICOM IM PROCESSED → See OE4. IR346 DICOM PRINT → See OE6.
IR346 DMS NETWORK IN-OUT	Verify that the option key is installed.
IR346 LOCAL PRINT	Verify that the option key is installed, and then check whether the PEI01A board is installed in the PC. Also, check that DIP switch setup is properly completed. ☞ For DIP switch settings and other checkout procedures, see “CL + Local Printer (E-i/f Connection)” in “OE: Connecting the CL to Other Equipment”.

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Appendix CL Error Message Table (A04)

Event	Event Source	Description	Causes	Remedies	Remarks
10900	IIPInputEz	%1 : Registory Value Get/Set Error%n [Key] %2%n [Exp] %3%n %4%n %5	The acquisition/setup key or registration information is abnormal.	Check the registry key.	
10901	IIPInputEz	%1 : Database Connection Error%n [DB] %2%n [Exp] %3%n %4%n %5	This error is attributable to an abnormal character string in Directory.ini, an incorrect database file name, or a damaged database.	Check Directory.ini or database file name.	
10902	IIPInputEz	%1 : Database Data Get/Set Error%n [DB] %2%n [Table] %3%n [Field] %4%n [Exp] %5	This error is attributable to an abnormal database acquisition/setup key or database.	Check the database table/field name.	
10903	IIPInputEz	%1 : Dicom Data Object Get/Set Error%n [Tag] %2%n [Exp] %3%n %4%n %5	The DDO acquisition/setup tag is abnormal.	Check the DDO tag.	
10904	IIPInputEz	%1 : Other Error%n [Proceedure] %2%n [ErrorCode] %3%n [Exp] %4%n %5	Unknown error.		
11900	IIPInputEz	%1 : Registory Value Get/Set Error%n [Key] %2%n [Exp] %3%n %4%n %5	The acquisition/setup key or registration information is abnormal.	Check the registry key.	
11901	IIPInputEz	%1 : Database Connection Error%n [DB] %2%n [Exp] %3%n %4%n %5	This error is attributable to an abnormal character string in Directory.ini, an incorrect database file name, or a damaged database.	Check Directory.ini or database file name.	
11902	IIPInputEz	%1 : Database Data Get/Set Error%n [DB] %2%n [Table] %3%n [Field] %4%n [Exp] %5	This error is attributable to an abnormal acquisition/setup key or database.	Check the database table/field name.	

Event	Event Source	Description	Causes	Remedies	Remarks
11903	IIPInputEz	%1 : Dicom Data Object Get/Set Error%n [Tag] %2%n [Exp] %3%n %4%n %5	The DDO acquisition/setup tag is abnormal.	Check the DDO tag.	
11904	IIPInputEz	%1 : Other Error%n [Proceedure] %2%n [ErrorCode] %3%n [Exp] %4%n %5	Unknown error.		
12900	IIPInputEz	%1 : Registory Value Get/Set Error%n [Key] %2%n [Exp] %3%n %4%n %5	The acquisition/setup key or registration information is abnormal.	Check the registry key.	
12901	IIPInputEz	%1 : Database Connection Error%n [DB] %2%n [Exp] %3%n %4%n %5	This error is attributable to an abnormal character string in Directory.ini, an incorrect database file name, or a damaged database.	Check Directory.ini or database file name.	
12902	IIPInputEz	%1 : Database Data Get/Set Error%n [DB] %2%n [Table] %3%n [Field] %4%n [Exp] %5	This error is attributable to an abnormal acquisition/setup key or database.	Check the database table/field name.	
12903	IIPInputEz	%1 : Dicom Data Object Get/Set Error%n [Tag] %2%n [Exp] %3%n %4%n %5	The DDO acquisition/setup tag is abnormal.	Check the DDO tag.	
12904	IIPInputEz	%1 : Unknown Error%n [Proceedure] %2%n [ErrorCode] %3%n [Exp] %4%n %5	Unknown error.		
13000	FFIdDepartSelect	It failed that [%1] connects departDB	The requesting department database was not found in the path indicated by the connection character string. The requesting department table did not exist.	Reinstall.	
13000	FFIdFilmMark	It failed that [%1] gets the FontName	The "Font" key was not found in the registry.	Reinstall the IIP because the displayed characters can be corrupted.	

Event	Event Source	Description	Causes	Remedies	Remarks
13000	FFIdMenuChange	It failed that [%1] gets the FontName	The "Font" key was not found in the registry.	Reinstall the IIP because the displayed characters can be corrupted.	
13000	FFIdMenuItem	It failed that [%1] gets the FontName	The "Font" key was not found in the registry.	Reinstall the IIP because the displayed characters can be corrupted.	
13000	FFIdParamedicSelect	It failed that [%1] connects paramedicDB	The technician's database was not found in the pass indicated by the connection character string or the technician's table did not exist.	Reinstall.	
13000	FFIdPatInfoInput	It failed that [%1] gets the ID# caption	The "LangStrDB" key was not found in Directory.ini or the ID "30700" was not registered in the character string database.	Reinstall.	
13001	FF32LIB	Image Database Access Failure. ErrNo:%1 NativeErrNo:%2 SQLState:%3 Source:%4 Description:%5	The image database was not successfully accessed (ADO error).	Restart.	
13001	FFCustomMsgBox	MessageBox DataBase Connection Error.	The message database was not successfully connected. It is conceivable that the database did not exist or that the specified data source name was invalid.	Reinstall or check whether the message database exists and the contents of Directory.ini are correct.	
13001	FFCustomMsgBox	MessageBox DataBase Connection Error. [%1]	The connection to the message database was not successfully established. The database did not exist or the specified data source name was invalid.	Perform a reinstallation or check whether the message database exists and the contents of Directory.ini are correct.	
13001	FFIdDepartSelect	It failed that [%1] gets the DepartLabel caption	The "LangStrDB" key was not found in Directory.ini or the ID "30800" was not registered in the character string database.	Reinstall.	
13001	FFIdFilmMark	It failed that [%1] gets the FontSize	The "FontSizeSS"/"FontSizeS"/"FontSizeM"/ "FrontSizeL"/"FontSizeLL" key was not found in the registry	Reinstall the IIP because the displayed characters can be corrupted.	
13001	FFIdMenuChange	It failed that [%1] gets the FontSize	The "FontSizeSS"/"FontSizeS"/"FontSizeM"/ "FrontSizeL"/"FontSizeLL" key was not found in the registry.	Reinstall the IIP because the displayed characters can be corrupted.	
13001	FFIdMenuItem	It failed that [%1] gets the FontSize	The "FontSizeSS"/"FontSizeS"/"FontSizeM"/ "FrontSizeL"/"FontSizeLL" key was not found in the registry.	Reinstall the IIP because the displayed characters can be corrupted.	
13001	FFIdParamedicSelect	It failed that [%1] gets the ParamedicLabel caption	The "LangStrDB" key was not found in Directory.ini or the ID "30800" was not registered in the character string database.	Reinstall.	
13001	FFIdPatInfoInput	It failed that [%1] gets the EXAM# caption	The "LangStrDB" key was not found in Directory.ini or the ID "30701" was not registered in the character string database.	Reinstall.	
13001	FFIipInput	It failed that [%1] gets the FontName	The "Font" key was not found in the registry.	Reinstall the IIP because the displayed characters can be corrupted.	

Event	Event Source	Description	Causes	Remedies	Remarks
13001	FFImageDBCTL	Image Database Access Error. ErroNo:%1 Source:%2 Description:%3	The image database was not successfully accessed (ADO error).	Restart.	
13001	FFImageDBCTL	Image Database Access Failure. ErrNo:%1 NativeErrNo:%2 SQLState:%3 Source:%4 Description:%5	The image database was not successfully accessed (ADO error).	Restart.	
13001	FFIpcInf	[%1] It failed in CoInitialize(%2).	Initialization was unsuccessful. It is conceivable that the system was unstable.	Restart.	"%1": Instance name "%2": Error code
13001	FFLogFile	[%1] It failed in CreateFile(%2). %3	Log file creation was unsuccessful. The problem might have been caused, for instance, by an invalid filename selection, inadequate disk space, or system instability.	Check for a free disk space or restart.	"%1": Instance name "%2": Error code "%3": File name/mutex name
13002	FFCustomMsgBox	MessageBox Data Get Error.	The specified message was not databased. It is conceivable that the message was not registered in the message database or that the specified ID was incorrect (program defect).	Perform a reinstallation or replace the message database with the latest one.	
13002	FFIdDepartSelect	It failed that [%1] gets the FontName	The "Font" key was not found in the registry.	Reinstall the IIP because the displayed characters can be corrupted.	
13002	FFIdFilmMark	It failed that [%1] gets the Clear Caption	The "LangStrDB" key was not found in Directory.ini or the ID "34800" was not registered in the character string database.	Reinstall.	
13002	FFIdMcrControl	Driver initialize error[%1]	The magnetic card was not connected.	Connect the magnetic card reader.	
13002	FFIdMenuChange	It failed that [%1] gets the multibyte flag	The "Multibyte" key was not found in the registry.	Reinstall.	
13002	FFIdMenuItem	It failed that [%1] gets the multibyte flag	The "Multibyte" key was not found in the registry.	Reinstall.	
13002	FFIdParamedicSelect	It failed that [%1] gets the FontName	The "Font" key was not found in the registry.	Reinstall the IIP because the displayed characters can be corrupted.	
13002	FFIdPatInfoInput	It failed that [%1] gets the PatNameSbcs caption	The "LangStrDB" key was not found in Directory.ini or the ID "30702" was not registered in the character string database.	Reinstall.	
13002	FFIdRuMainControl	Driver initialize error[%1]	The magnetic card reader was not connected.	There are no operational problems.	
13002	FFIipInput	It failed that [%1] gets the FontSize	The "FontSizeSS"/"FontSizeS"/"FontSizeM"/ "FrontSizeL"/"FontSizeLL" key was not found in the registry.	Reinstall the IIP because the displayed characters can be corrupted.	
13002	FFImageDBCTL	[%1] %2	The image database was not successfully accessed.	Restart.	

Event	Event Source	Description	Causes	Remedies	Remarks
13002	FFImageDBCTL	Image Database Access Failure. InstanceName[%1]%2	The image database was not successfully accessed.	Restart.	
13002	FFIpcInf	[%1] It failed in CoCreateInstance(%2). LogFileCom create failure.	A log save control was not successfully created. The problem is attributable to system instability or unregistered control.	Restart. If the same symptom recurs, perform a reinstallation.	"%1": Instance name "%2": Error code
13002	FFLogFile	[%1] It failed in CreateFileMapping(%2).	File map object creation was unsuccessful. The problem is attributable to resource inadequacy or system instability.	Restart.	"%1": Instance name "%2": Error code
13003	FF32LIB	Image Database Access Failure. InstanceName[%1]%2 %3	The image database was not successfully accessed.	Restart.	
13003	FFCustomMsgBox	Same MessageBox Existed. [%1]	The specified message box is already open.	Close the message box.	
13003	FFIdDepartSelect	It failed that [%1] gets the FontSize	The "FontSizeSS"/"FontSizeS"/"FontSizeM"/ "FrontSizeL"/"FontSizeLL" key was not found in the registry.	Reinstall the IIP because the displayed characters can be corrupted.	
13003	FFIdFilmMark	It failed that [%1] gets the connection string of strDB	The "LangStrDB" key was not found in Directory.ini.	Reinstall.	
13003	FFIdMenuChange	[%1] failed in the initialization for the display group data acquisition	The "DisplayDataDB" key was not found in Directory.ini or the connection character string was not properly registered in the display group table.	Reinstall.	
13003	FFIdMenuItem	Image Folder Path Get Error	The "Bitmap" key was not found in Directory.ini.	Reinstall.	
13003	FFIdParamedicSelect	It failed that [%1] gets the FontSize	The "FontSizeSS"/"FontSizeS"/"FontSizeM"/ "FrontSizeL"/"FontSizeLL" key was not found in the registry.	Reinstall the IIP because the displayed characters can be corrupted.	
13003	FFIdPatInfoInput	It failed that [%1] gets the PatNameDbcs caption	The "LangStrDB" key was not found in Directory.ini or the ID "30703" was not registered in the character string database.	Reinstall.	
13003	FFIpInput	It failed that [%1] gets the multibyte flag	The "Multibyte" key was not found in the registry.	Reinstall.	
13003	FFImageDBCTL	[%1] %2 %3	The image database was not successfully accessed.	Restart.	
13003	FFImageDBCTL	Image Database Access Failure. InstanceName[%1]%2%3	The image database was not successfully accessed.	Restart.	

Event	Event Source	Description	Causes	Remedies	Remarks
13003	FFIpcInf	[%1] Memory allocation failed.	Memory allocation was not successfully achieved for main thread creation. The problem is attributable to resource inadequacy or system instability.	Restart.	"%1": Instance name
13003	FFLogFile	[%1] It failed in MapViewOfFile(%2).	File mapping was unsuccessful. The problem is attributable to resource inadequacy or system instability.	Restart.	"%1": Instance name "%2": Error code
13004	FFCustomMsgBox	MessageBox Dialog Create Error. [%1]	The message box could not be created. This error occurred due to insufficient resources or system instability.	Restart.	
13004	FFIdDepartSelect	It failed that [%1] gets the depart field list	The "FieldDepartList" key was not found in the system setup database.	Reinstall.	
13004	FFIdFilmMark	It failed that [%1] connects to strDB	The connection character string was not properly registered for the "LangStrDB" key in Directory.ini.	Reinstall.	
13004	FFIdMcrControl	Magnetic card data aquisition error[%1	The magnetic card was found damaged.	Have a normal magnetic card be read.	
13004	FFIdMenuChange	[%1] failed in the display group data acquisition	The "DisplayDataDB" key was not found in Directory.ini or the connection character string was not properly registered in the display group table.	Reinstall.	
13004	FFIdMenuItem	[Miss]Image Get Error	Id_MissExposure_I.bmp was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13004	FFIdParamedicSelect	It failed that [%1] gets the paramedic field list	The "FieldParamedicList" key was not found in the system setup database.	Reinstall.	
13004	FFIdPatInfoInput	It failed that [%1] gets the Sex caption	The "LangStrDB" key was not found in Directory.ini or the ID "30704" was not registered in the character string database.	Reinstall.	
13004	FFIdRuMainControl	Magnetic card data aquisition error[%1]	The magnetic card is damaged.	Have a normal magnetic card be read.	
13004	FFIipInput	It failed that [%1] gets the connection string of STR DB	The "LangStrDB" key was not found in Directory.ini.	Reinstall.	
13004	FFIpcInf	[%1] A pipe has already been made(%2).	An attempt was made to duplicate a pipe.	There are no operational problems.	"%1": Instance name "%2": Error code
13004	FFLogFile	[%1] It failed in CreateMutex(%2). %3	Mutex creation was unsuccessful. The problem is attributable to resource inadequacy or system instability.	Restart.	"%1": Instance name "%2": Error code "%3": file name/mutex name
13005	FFCustomMsgBox	MessageBox Dialog Show Error. [%1]	The message box could not be opened. This error occurred due to insufficient resources or system instability.	Restart	

Event	Event Source	Description	Causes	Remedies	Remarks
13005	FFIdConnectionWatchEX	Recv Error Message [%1] Error Code [%2]	The connection to the RU was closed or a connection error occurred.	Restore the RU connection to normal.	
13005	FFIdFilmMark	It failed that [%1] gets the connection string of FilmMarkDB	The "FilmMarkDB" key was not found in Directory.ini.	Reinstall.	
13005	FFIdMcrControl	Magnetic card variation error[%1]	The magnetic card was not of the specified type.	Have the specified type of magnetic card be read.	
13005	FFIdMenuChange	[%1] failed in the liberating processing of the display group data acquisition	The connection to the display group table was not successfully closed.	Restart. If the same symptom recurs, reinstall.	
13005	FFIdPatInfoInput	It failed that [%1] gets the SexMale caption	The "LangStrDB" key was not found in Directory.ini or the ID "30705" was not registered in the character string database.	Reinstall.	
13005	FFIdRuMainControl	Magnetic card variation error[%1]	The employed magnetic card type was different than specified.	Have the specified type of magnetic card be read.	
13005	FFIdRuMainControl	Recv error[%1]	The connection to the RU was closed or an error occurred in the connection.	Check the connection to the RU.	
13005	FFIdRUMainControlEx	Recv Error Message [%1] Error Code [%2]	The connection to the RU was closed or a connection error occurred.	Restore the RU connection to normal.	
13005	FFIpInput	It failed that [%1] connects to STR DB	The connection character string was not properly registered for the "LangStrDB" key in Directory.ini.	Reinstall.	
13005	FFIpcInf	[%1] It failed in _beginthread(%2).	Main thread creation was not successful. The problem is attributable to resource inadequacy or system instability.	Restart.	"%1": Instance name "%2": Error code
13006	FFCustomMsgBox	List For Modaless MessageBox Management New Error.	The modaless message box management table was not successfully created. The problem is attributable to resource inadequacy or system instability.	Restart.	
13006	FFCustomMsgBox	List For Modaless MessageBox Management New Error. [%1]	The modeless message box management table was not successfully created. This error occurred due to insufficient resources or system instability.	Restart.	
13006	FFIdFilmMark	It failed that [%1] connects to FilmMarkDB	The connection character string was not properly registered for the "FilmMarkDB" key in Directory.ini.	Reinstall.	
13006	FFIdMcrControl	Magnetic card variation check error[%1]	The card format was incorrect or an attempt was made to read an unspecified hospital card.	Have the specified hospital card be read.	
13006	FFIdMenuChange	[%1] failed in the initialization for the display menu data acquisition	The "DisplayDataDB" key was not found in Directory.ini.	Reinstall.	

Event	Event Source	Description	Causes	Remedies	Remarks
13006	FFIdPatInfoInput	It failed that [%1] gets the SexFemale caption	The "LangStrDB" key was not found in Directory.ini or the ID "30706" was not registered in the character string database.	Reinstall.	
13006	FFIdRuMainControl	Magnetic card variation check error[%1]	The card format was wrong or an attempt was made to cause an unspecified hospital card to be read.	Have the specified hospital card be read.	
13006	FFIipInput	It failed that [%1] gets the connection string of SYS DB	The "SysConfigDB" key was not found in Directory.ini.	Reinstall.	
13006	FFIpcInf	[%1] It failed in WaitNamedPipe(%2).	The specified pipe was not successfully connected. It is conceivable that the pipe was not created or was unconnectable or that the system was unstable.	Make a change so as to let the program initiate a retransmission, or restart.	"%1": Instance name "%2": Error code
13007	FFIdDepartSelect	It failed that [%1] gets the connection string of strDB	The "LangStrDB" key was not found in Directory.ini.	Reinstall.	
13007	FFIdMcrControl	DataFormatDB access error[%1]	"McrDataFormatDB" key was not found in Directory.ini or McrDataFormat.mdb did not exist in the specified path.	Reinstall.	
13007	FFIdMenuChange	[%1] failed in the acquisition of number of records of display menu data	The connection character string was not properly registered in the display group table.	Reinstall.	
13007	FFIdParamedicSelect	It failed that [%1] gets the connection string of strDB	The "LangStrDB" key was not found in Directory.ini.	Reinstall.	
13007	FFIdPatInfoInput	It failed that [%1] gets the SexOther caption	The "LangStrDB" key was not found in Directory.ini or the ID "30707" was not registered in the character string database.	Reinstall.	
13007	FFIdRuMainControl	DataFormatDB access error[%1]	The "McrDataFormatDB" key was not found in Directory.ini or McrDataFormat.mdb did not exist in the path.	Reinstall.	
13007	FFIipInput	It failed that [%1] connects to SYS DB	The connection character string was not properly registered for the "SysConfigDB" key in Directory.ini.	Reinstall.	
13007	FFIpcInf	[%1] It failed in CreateFile(%2).	The specified pipe was not successfully connected. It is conceivable that the pipe was closed or that the system was unstable.	The problem is attributable to the program. Check the program or restart.	"%1": Instance name "%2": Error code
13007	FFIpcInf	[%1] It failed in CreateFile(%2). [Send Msg:%3]	The connection to the specified pipe was not established. This error occurred because the pipe was closed or the system was unstable.	The problem is attributable to the program. Check the program or restart.	
13008	FFCustomMsgBox	An exception error occurred. [%1] %2	An exception occurred (the system was unstable).	Restart.	

Event	Event Source	Description	Causes	Remedies	Remarks
13008	FFIdConnectionWatch Ex	Message Send Error [%1] Error Code [%2]	A connection error occurred.	Restore the RU connection to normal.	
13008	FFIdDepartSelect	It failed that [%1] connects to strDB	The connection character string was not properly registered for the "LangStrDB" key in Directory.ini.	Reinstall.	
13008	FFIdFilmMark	It failed that [%1] get the folder path to Bitmap	The "Bitmap" key was not found in Directory.ini.	Reinstall.	
13008	FFIdMenuChange	[%1] failed in the display menu data acquisition	Not properly registered to the display group table.	Reinstall.	
13008	FFIdParamedicSelect	It failed that [%1] connects to strDB	The connection character string was not properly registered for the "LangStrDB" key in Directory.ini.	Reinstall.	
13008	FFIdPatInfoInput	It failed that [%1] gets the DateOfBirth caption	The "LangStrDB" key was not found in Directory.ini or the ID "30708" was not registered in the character string database.	Reinstall.	
13008	FFIdRuMainControl	DataFormatDB close error[%1]	The database was faulty.	Reinstall.	
13008	FFIdRUMainControlEx	Message Send Error [%1] WSAGetLastError = [%2]	A connection error occurred.	Restore the RU connection to normal.	
13008	FFIipInput	It failed that [%1] calls the CUSTOM MESSAGE BOX (%2)	The message database did not exist or the program was faulty.	Reinstall.	
13008	FFIpcInf	[%1] It failed in WriteFile(%2).	A message was not successfully transmitted. It is conceivable that the pipe was closed or that the system was unstable.	The problem is attributable to the program. Check the program or restart.	"%1": Instance name "%2": Error code
13008	FFIpcInf	[%1] It failed in WriteFile(%2). [Send Msg:%3]	The message transmission was not successfully completed. This error occurred due to a closed pipe or system instability.	It is conceivable that the program may be faulty. Check the program or restart.	
13009	FFCustomMsgBox	Common function error occurred. [%1] %2	The common function returned an error.	Restart.	
13009	FFIdConnectionWatch	LogFile Name Make error(%1).%n[%2]	The "Log" key was not found in Directory.ini.	Reinstall.	
13009	FFIdConnectionWatch-Ex	Log File Name Make Error[%1] Error Code [%2]	The "Log" key was not found in Directory.ini.	Register the "Log" key in Directory.ini.	
13009	FFIdDepartSelect	It failed that [%1] gets the connection string of sysDB	The "SysConfigDB" key was not found in Directory.ini.	Reinstall.	
13009	FFIdFilmMark	It failed that [%1] get the bitmap to Previous Page	Id_UpScroll_U.bmp/"Id_UpScroll_D.bmp"/"Id_UpScroll_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	

Event	Event Source	Description	Causes	Remedies	Remarks
13009	FFIdMcrControl	DataFormatDB close error[%1]	The database was faulty.	Reinstall.	
13009	FFIdMenuChange	[%1] failed in the liberating processing of the display manu data acquisition	The connection to the display menu table was not successfully closed.	Restart. If the problem frequently occurs, initialize the image database.	
13009	FFIdParamedicSelect	Is failed that [%1] gets the connection string of sysDB	The "SysConfigDB" key was not found in Directory.ini.	Reinstall.	
13009	FFIdPatInfoInput	It failed that [%1] gets the FontName	The "Font" key was not found in the registry.	Reinstall the IIP because the displayed characters can be corrupted.	
13009	FFIdRuMainControl	LogFile Name Make error[%1]	The "Log" key was not found in Directory.ini.	Reinstall.	
13009	FFIdRUMainControlEx	Log File Name Make Error[%1] Error Code [%2]	The "Log" key was not found in Directory.ini.	Register the "Log" key in Directory.ini.	
13009	FFIpcInf	[%1] Memory allocation failed.	Memory allocation was not successfully achieved for reception thread creation. The problem is attributable to resource inadequacy or system instability.	Restart.	"%1": Instance name "%2": Error code
13010	FFIdConnectionWatch	DB Connect error(%1).%n[%2]	The "SysConfigDB" key was not found in Directory.ini or SysConfig.mdb did not exist in the path.	Reinstall.	
13010	FFIdConnectionWatch-Ex	DB Connect Error [%1] Error Code [%2]	"SysConfigDB" key was not found in Directory.ini or SysConfig.mdb did not exist in the specified path.	Properly register the "SysConfigDB" key in Directory.ini.	
13010	FFIdDepartSelect	It failed that [%1] connects to sysDB	The connection character string was not properly registered for the "SysConfigDB" key in Directory.ini.	Reinstall.	
13010	FFIdFilmMark	It failed that [%1] get the bitmap to Next Page	Id_DownScroll_U.bmp/"Id_DownScroll_D.bmp"/ "Id_DownScroll_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13010	FFIdMcrControl	Patient info data error[%1] %n(%2)	The patient information contained in the magnetic card was incorrect.	Check the data contained in the magnetic card.	
13010	FFIdMenuChange	[%1] failed in the termination of the display manu data acquisition	The connection to the display menu table was not successfully closed.	Restart. If the problem frequently occurs, initialize the image database.	
13010	FFIdParamedicSelect	It failed that [%1] connects to sysDB	The connection character string was not properly registered for the "SysConfigDB" key in Directory.ini.	Reinstall.	
13010	FFIdPatInfoInput	It failed that [%1] gets the FontSize	The "FontSizeSS"/"FontSizeS"/"FontSizeM"/ "FrontSizeL"/"FontSizeLL" key was not found in the registry.	Reinstall the IIP because the displayed characters can be corrupted.	

Event	Event Source	Description	Causes	Remedies	Remarks
13010	FFIdRuMainControl	DB Connect error[%1]	The "SysConfigDB" key was not found in Directory.ini or SysConfig.mdb did not exist in the path.	Reinstall.	
13010	FFIdRuMainControl	Patient info data error[%1]	The patient information carried by the magnetic card was incorrect.	Check the data stored in the magnetic card.	
13010	FFIdRUMainControlEx	DB Connect Error [%1] Error Code [%2]	"SysConfigDB" key was not found in Directory.ini or SysConfig.mdb did not exist in the specified path.	Properly register the "SysConfigDB" key in Directory.ini.	
13010	FFIpcInf	[%1] It failed in CreateNamedPipe(%2).	Pipe creation was not successful. It is conceivable that the system was unstable.	Restart.	"%1": Instance name "%2": Error code
13010	FFIpcInf	[%1] It failed in CreateNamedPipe(%2). [Pipe:%3]	The pipe was not successfully created. The system was unstable.	Restart.	
13011	FFIdConnectionWatch	DB Read error(%1).%n[%2]	The "EchoInterval", "ComBreakTimeout1", "PartFrupStatus", or "EnableLog FrupConnect" key was not found in SysConfig.mdb.	Reinstall.	
13011	FFIdConnectionWatch-Ex	DB Read error[%1] Error Code [%2]	The "EchoInterval", "ComBreakTimeout1", "PortFrupStatus", or "EnableLogFrupConnect" key was not found in SysConfig.mdb.	Ensure that the "EchoInterval", "ComBreakTimeout1", "PortFrupStatus", and "EnableLogFrupConnect" keys are all registered in SysConfig.mdb.	
13011	FFIdDepartSelect	It's failed that [%1] gets the connection string of departDB	DepartDB did not exist in Directory.ini.	Reinstall.	
13011	FFIdFilmMark	It failed that [%1] get the bitmap to Clear	Id_Clear_U.bmp/"Id_Clear_D.bmp"/"Id_Clear_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13011	FFIdParamedicSelect	It failed that [%1] gets the connection string of paramedicDB	ParamedicDB did not exist in Directory.ini.	Reinstall.	
13011	FFIdPatInfoInput	It failed that [%1] gets the max length of ID#	The "IdLength" key was not found in the system setup database.	Reinstall.	
13011	FFIdRuMainControl	DB Read error[%1]	The "PortFrupMain", "AckTimeout", or "EnableLoaFrupMain" key was not found in SysConfig.mdb.	Reinstall.	
13011	FFIdRUMainControlEx	DB Read error[%1] Error Code [%2]	The "PortFrupMain", "AckTimeout", or "EnableLogFrupMain" key was not found in SysConfig.mdb.	Ensure that the "PortFrupMain", "AckTimeout", and "EnableLogFrupMain" keys are all registered in SysConfig.mdb.	
13011	FFIipInput	It failed that [%1] gets the window size	The "ScallHight"/"ScallWidth" key was not registered in the registry.	Reinstall.	
13011	FFIpcInf	[%1] It failed in ConnectNamedPipe(%2).	Pipe connection was not successfully awaited. It is conceivable that the system was unstable.	Restart.	"%1": Instance name "%2": Error code

Event	Event Source	Description	Causes	Remedies	Remarks
13011	FFIpcInf	[%1] It failed in ConnectNamedPipe(%2). [Pipe:%3]	The pipe connection request was not successfully enqueued.	Restart.	
13011	FFCustomMsgBox	ActiveX Data Objects(ADO) Error. ErroNo:%1 Source:%2 Description:%3	An ADO error was detected.	Restart	
13012	FFIdPatInfoInput	It failed that [%1] gets the max length of EXAM#	The "ExaminationNoLength" key was not found in the system setup database.	Reinstall.	
13012	FFIpcInf	[%1] It failed in _beginthread(%2).	Reception thread creation was not successful. The problem is attributable to resource inadequacy or system instability.	Restart.	"%1": Instance name "%2": Error code
13012	FFIpcInf	[%1] It failed in _beginthread(%2). [Pipe:%3]	The reception thread was not successfully created. This error occurred due to insufficient resources or system instability.	Restart.	
13013	FFIdMenuChange	It failed that [%1] get the folder path to Bitmap	The "Bitmap" key was not found in Directory.ini.	Reinstall.	
13013	FFIdPatInfoInput	It failed that [%1] gets the padding type of ID#	The "IdPadding" key was not found in the system setup database.	Reinstall.	
13013	FFIdRUMainControlEx	Configration error[%1] WSAGetLastError = [%2]	SysConfig.mdb was abnormal.		
13013	FFIpcInf	[%1] It failed in ReadFile(%2).	Message reception was not successful. It is conceivable that the system was unstable.	Restart.	"%1": Instance name "%2": Error code
13013	FFIpcInf	[%1] It failed in ReadFile(%2). [Pipe:%3]	The message reception was not successfully completed. The system was unstable.	Restart.	
13014	FFIdConnectionWatch	Ack Messeage Time Out(%1).%n[%2]	The connection to the RU was closed or an error occurred in the connection.	Check the connection to the RU.	
13014	FFIdConnectionWatch-Ex	Ack Message Time Out[%1] Error Code [%2]	The connection to the RU was closed or a connection error occurred.	Restore the RU connection to normal.	
13014	FFIdMenuChange	It failed that [%1] get the bitmap to Previous Page	Id_PrevPage_U.bmp/"Id_PrevPage_D.bmp"/"Id _PrevPage_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13014	FFIdPatInfoInput	It failed that [%1] gets the padding type of EXAM#	The "ExaminationNoPadding" key was not found in the system setup database.	Reinstall.	
13014	FFIdRuMainControl	Ack Messeage Time Out[%1]	The connection to the RU was closed or an error occurred in the connection.	Check the connection to the RU.	
13014	FFIdRUMainControlEx	Ack Message Time Out[%1] WSAGetLastError = [%2]	The connection to the RU was closed or a connection error occurred.	Restore the RU connection to normal.	

Event	Event Source	Description	Causes	Remedies	Remarks
13014	FFIipInput	[%1] No RU Used	Although the FRUP option was selected, NetConfig did not have any RU connection setting. There was a conflict between the option setup and Config setup.	Check the settings.	
13014	FFIpcInf	[%1] It is a parameter error.	An illegal parameter was encountered (program defect).		"%1": Instance name
13015	FFIdMenuChange	It failed that [%1] get the bitmap to Next Page	Id_NextPage_U.bmp/"Id_NextPage_D.bmp"/"Id _NextPage_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13015	FFIdPatInfoInput	It failed that [%1] gets the multibyte flag	The "Multibyte" key was not found in the registry.	Reinstall.	
13015	FFIpcInf	"[%1] Exception Information. %2	An exception occurred (the system was unstable).	Restart.	
13016	FFIdPatInfoInput	It failed that [%1] gets the date format type	The "DateFormat" key was not found in the system setup database.	Reinstall.	
13017	FFIdConnectionWatch-Ex	RU Host Unknown Error[%1] Error Code [%2]	The RU was not properly set for the IIP.	Check the setup.	
13017	FFIdPatInfoInput	It failed that [%1] gets the connection string of strDB	The "LangStrDB" key was not found in Directory.ini.	Reinstall.	
13017	FFIdRUMainControlEx	RU Host Unknown Error[%1] Error Code [%2]	The RU was not properly set for the IIP.	Check the setup.	
13018	FFIdPatInfoInput	It failed that [%1] connects to strDB	The connection character string was not properly registered for the "LangStrDB" key in Directory.ini.	Reinstall.	
13019	FFIdPatInfoInput	It failed that [%1] gets the connection string of sysDB	The "SysConfigDB" key was not found in Directory.ini.	Reinstall.	
13020	FFIdPatInfoInput	It failed that [%1] connects to sysDB	The connection character string was not properly registered for the "SysConfigDB" key in Directory.ini.	Reinstall.	
13020	FFIipInput	RU Error DB Connect Error in [%1]	The connection character string was not properly registered for the "RuErrorDataDB" key in Directory.ini or the RU error information database did not exist.	Reinstall.	
13021	FFIipInput	RU Error Data Get Error in [%1]	The window number sent from the RU was not found in the RU error information database.	Ensure that the RU version agrees with the RU error information database version.	
13022	FFIdPatInfoInput	It failed that [%1] gets System ID	The system setup database was damaged.	Reinstall.	
13022	FFIipInput	RU Status DB Connection String Get Error in [%1]	The connection character string was not properly registered for the "RuStatusDataDB" key in Directory.ini.	Reinstall.	

Event	Event Source	Description	Causes	Remedies	Remarks
13023	FFIdPatInfoInput	%1 (%2) : Patient Information Check Error%n Item [%3]%n Error [%4]	The patient information contained illegal information.	Correct the patient information setup.	
13023	FFIipInput	RU Status DB Connect Error in [%1]	The connection character string was not properly registered for the "RuErrorDataDB" key in Directory.ini or the RU error information database did not exist.	Reinstall.	
13024	FFIdPatInfoInput	%1 (%2) : Bitmap Image Get Error%n BMP File [%3]	"Id_LocalSearch_U.bmp", "Id_LocalSearch_D.bmp", or "Id_LocalSearch_X.bmp" was not found in the path to the folder in which images were positioned.	Place "Id_LocalSearch_U.bmp", "Id_LocalSearch_D.bmp", and "Id_LocalSearch_X.bmp" in the path to the folder in which images are positioned.	
13024	FFIipInput	RU Status Data Get Error in [%1]	The window number sent from the RU was not found in the RU error information database.	Ensure that the RU version agrees with the RU error information database version.	
13025	FFIdPatInfoInput	%1 (%2) : Patient Info Get Error%n Error [%3]%n RetCode [%4]	The patient information database was damaged.	Repair the patient information database.	
13026	FFIdPatInfoInput	%1 (%2) : Patient Info Set Error%n Error [%3]%n RetCode [%4]	The patient information to be registered contained illegal information or the patient information database was damaged.	Enter correct patient information or repair the patient information database.	
13027	FFIdPatInfoInput	%1 (%2) : Patient Info Not Correspond%n RetCode [%3]%n	No matching patient information was found.		
13027	FFIipInput	%1%n%2%n%3%n%4%n %5%n%6%n%7%0	Control information	No particular remedy needs be taken.	
13030	FFIipInput	%1%n%2%n%3%n%4%n %5%n%6%n%7%0	The connection character string was not properly registered for the "RuStatusDataDB" key in Directory.ini.	Reinstall.	
13031	FFIipInput	[%s] %s (%s): Log Output Directory Get Error	The system setup database was damaged.	Reinstall.	
13032	FFIipInput	[%s] %s (%s): MCR Control Initialize Error	The card reader unit was not connected.	There are no particular problems except that the magnetic card reader is not available.	
13033	FFIipInput	[%s] %s (%s): LR button cannot be concave set	The range was changed by the Service Utility.	No particular remedy needs be taken.	
13034	FFIipInput	[%s] %s (%s): TB button cannot be concave set	The range was changed by the Service Utility.	No particular remedy needs be taken.	
13035	FFIipInput	[%s] %s (%s): TBLR button cannot be concave set	The range was changed by the Service Utility.	No particular remedy needs be taken.	
13036	FFIipInput	[%s] %s (%s): rotation button cannot be concave set	The range was changed by the Service Utility.	No particular remedy needs be taken.	

Event	Event Source	Description	Causes	Remedies	Remarks
13037	FFlipInput	[%s] %s (%s): Message Table Name Get Error	The "MsgTableName" key was not found in the system setup database.	Reinstall.	
13038	FFlipInput	[%s] %s (%s): StrDB Connection String Get Error	The "LangStrDB" key was not found in Directory.ini.	Reinstall.	
13039	FFlipInput	[%s] %s (%s): StrDB Connect Error	The connection character string was not properly registered for the "LangStrDB" key in Directory.ini.	Reinstall.	
13040	FFlipInput	[%s] %s (%s): SysDB Connection String Get Error	The "SysConfigDB" key was not found in Directory.ini.	Reinstall.	
13041	FFlipInput	[%s] %s (%s): SysDB Connect Error	The connection character string was not properly registered for the "SysConfigDB" key in Directory.ini.	Reinstall.	
13042	FFlipInput	[%s] %s (%s): ImageDB Connection Character String Get Error	The "ImageDB" key was not found in Directory.ini.	Reinstall.	
13043	FFlipInput	[%s] %s (%s): Failed ImageDB Connection	The connection character string was not properly registered for the "ImageDB" key in Directory.ini.	Reinstall.	
13044	FFlipInput	[%s] %s (%s): Failed ImageDB Open Recordset	The image database was not successfully accessed.	Reinstall.	
13045	FFlipInput	[%s] %s (%s): Failed ImageDB Close Recordset	The image database was not successfully accessed.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
13046	FFlipInput	[%s] %s (%s): ImageDB Data Get Error	The image database was not successfully accessed.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
13047	FFlipInput	[%s] %s (%s): ImageDB Data Set Error	The image database was not successfully accessed.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
13048	FFlipInput	[%s] %s (%s): ImageDB Data Delete Error	The image database was not successfully accessed.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	

Event	Event Source	Description	Causes	Remedies	Remarks
13049	FFlipInput	[%s] %s (%s): Failed ImageDBFlag Connection	The image database was not successfully accessed.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
13050	FFlipInput	[%s] %s (%s): Failed ImageDBFlag Close	The image database was not successfully accessed.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
13051	FFlipInput	[%s] %s (%s): ImageDBFlag Data Set Error	The image database was not successfully accessed.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
13052	FFlipInput	[%s] %s (%s): Failed MenuDB Initialize	The initialization process for menu database access was not successfully performed.	Reinstall.	
13053	FFlipInput	[%s] %s (%s): Menu Data in ImageDB Get Error	Menu information was not successfully acquired from the menu database.	Reinstall.	
13054	FFlipInput	[%s] %s (%s): Menu Parameter Data in ImageDB Get Error	Menu parameter information was not successfully acquired from the menu database.	Reinstall.	
13055	FFlipInput	[%s] %s (%s): Failed MenuDB Termination	The termination process for menu database access was not successfully performed.	Reinstall.	
13056	FFlipInput	[%s] %s (%s): NetDB Connection Character String Get Error	The "NetConfigDB" key was not found in Directory.ini.	Reinstall.	
13057	FFlipInput	[%s] %s (%s): Failed NetDB Connection	The connection character string was not properly registered for the "NetConfigDB" key in Directory.ini.	Reinstall.	
13058	FFlipInput	[%s] %s (%s): NetDB Data Get Error	The network setup database was damaged.	Reinstall.	
13059	FFlipInput	[%s] %s (%s): Failed Create New DICOM Data	New DICOM data was not successfully created.	Restart. If the problem frequently occurs, initialize the image database.	
13060	FFlipInput	[%s] %s (%s): DICOM Data Get Error	DICOM data was not successfully acquired.	Restart. If the problem frequently occurs, initialize the image database.	
13061	FFlipInput	[%s] %s (%s): DICOM Data Set Error	DICOM data was not successfully set up.	Restart. If the problem frequently occurs, initialize the image database.	
13062	FFlipInput	[%s] %s (%s): DICOM Data Delete Error	DICOM data was not successfully deleted.	Restart. If the problem frequently occurs, initialize the image database.	
13063	FFlipInput	[%s] %s (%s): DICOM Data Load Error	DICOM data was not successfully loaded.	Restart. If the problem frequently occurs, initialize the image database.	
13064	FFlipInput	[%s] %s (%s): DICOM Data Save Error	DICOM data was not successfully saved.	Restart. If the problem frequently occurs, initialize the image database.	

Event	Event Source	Description	Causes	Remedies	Remarks
13065	FFlipInput	[%s] %s (%s): DICOM Data Free Error	DICOM data was not successfully freed.	Restart. If the problem frequently occurs, initialize the image database.	
13066	FFlipInput	[%s] %s (%s): Failed in Padding Acquisition[Id#]	The "IdPadding" key was not found in the system setup database.	Reinstall.	
13067	FFlipInput	[%s] %s (%s): Failed in Padding Acquisition[Exam#]	The "ExaminationNoPadding" key was not found in the system setup database.	Reinstall.	
13068	FFlipInput	[%s] %s (%s): Failed in Format Acquisition[Date Of Birth]	The "DateFormat" key was not found in the system setup database.	Reinstall.	
13069	FFlipInput	[%s] %s (%s): Cannot Access Data Base[Departmdb]	The requesting department database was not found in the path indicated by the connection character string. The requesting department table did not exist.	Reinstall.	
13070	FFlipInput	[%s] %s (%s): Displayed Item Is Not Understood[Depart List]	The "FieldDepartList" key was not found in the system setup database.	Reinstall.	
13072	FFlipInput	[%s] %s (%s): Failed in Connected String Acquisition[Depart]	The "DepartDB" key was not found in Directory.ini.	Reinstall.	
13073	FFlipInput	[%s] %s (%s): Cannot Access Data Base[Paramedicmdb]	The technician's database was not found in the path indicated by the connection character string. The technician's table did not exist.	Reinstall.	
13074	FFlipInput	[%s] %s (%s): Displayed Item Is Not Understood[Paramedic List]	The "FieldParamedicList" key was not found in the system setup database.	Reinstall.	
13076	FFlipInput	[%s] %s (%s): Failed in Connected String Acquisition[Paramedic]	The "ParamedicDB" key was not found in Directory.ini.	Reinstall.	
13077	FFlipInput	[%s] %s (%s): Failed in Window Size Acquisition	The registry was damaged.	Reinstall.	
13078	FFlipInput	[%s] %s (%s): Failed in ExposureList Erase	The "ExposureListErase" key was not found in the system setup database.	Reinstall.	
13079	FFlipInput	[%s] %s (%s): Config Directory Character String Get Error	The "Config" key was not found in Directory.ini.	Reinstall.	
13080	FFlipInput	[%s] %s (%s): ImageDBFlag Data Get Error	The image database was damaged.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
13081	FFlipInput	[%s] %s (%s): StrDB Message String Get Error	The character string database was damaged.	Reinstall.	

Event	Event Source	Description	Causes	Remedies	Remarks
13082	FFIipInput	[%s] %s (%s): IP-Address(RU) Get Error	The network setup database was damaged.	Restart.	
13083	FFIipInput	[%s] %s (%s): Initialize Timeout <InImg>	The system was unstable.	Restart.	
13084	FFIipInput	[%s] %s (%s): Terminate Error <InImg>	The system was unstable.	Restart.	
13085	FFIipInput	[%s] %s (%s): Terminate Timeout <InImg>	The system was unstable.	Restart.	
13086	FFIipInput	[%s] %s (%s): Input Method Error <InImg>	The system was unstable.	Restart.	
13087	FFIipInput	[%s] %s (%s): Original Image Input Failure <InImg>	The system was unstable.	Restart.	
13088	FFIipInput	[%s] %s (%s): Image Processing Trouble <InImg>	The system was unstable.	Restart.	
13089	FFIipInput	[%s] %s (%s): Menu Read Error <IdExposureList>	The image database/information file was damaged.	Reinstall.	
13090	FFIdDepartSelect	%1 (%2) : Invalid Depart Code%n Code [%3]	Directory.ini was damaged.	Reinstall.	
13090	FFIdParamedicSelect	%1 (%2) : Invalid Paramedic Code%n Code [%3]	Directory.ini was damaged.	Reinstall.	
13091	FFIdDepartSelect	%1 (%2) : Invalid Depart Name (SBCS)%n Name (SBCS) [%3]	The database was damaged.	Reinstall.	
13091	FFIdParamedicSelect	%1 (%2) : Invalid Paramedic Name (SBCS)%n Name (SBCS) [%3]	The database was damaged.	Reinstall.	
13094	FFIipInput	[%s] %s (%s): Message Send Error <IpcInfCom>	The system was unstable.	Restart.	
13096	FFIipInput	[%s] %s (%s): Request Command Not Executed <RU>	It is conceivable that there was a problem on the RU side. (Although a command was requested, it was not executed.)	Check the RU status.	
13098	FF32LIB	FF32lib A WIN32 system library error occurred. [%1]%n%2	An error occurred when a WIN32 API was called.	Restart.	
13098	FFIipInput	[%s] %s (%s): Reconnect Error <RU>	The line was abnormal.	Check the line.	
13099	FF32LIB	FF32lib An unknown error occurred. [%1]%n%2	An exception error occurred.	Restart.	

Event	Event Source	Description	Causes	Remedies	Remarks
13099	FFlipInput	[%s] %s (%s): Disconnect Error <RU>	The line was abnormal.	Check the line.	
13100	FFlipInput	[%s] %s (%s): Failed in Display Group Acquisition[Initialize]	The "DisplayDataDB" key was not found in Directory.ini or the connection character string was not properly registered in the display group table.	Reinstall.	
13101	FFlipInput	[%s] %s (%s): Failed in Display Group Acquisition	The "DisplayDataDB" key was not found in Directory.ini or the connection character string was not properly registered in the display group table.	Reinstall.	
13103	FFlipInput	[%s] %s (%s): Failed in Display Menu Acquisition[Initialize]	The "DisplayDataDB" key was not found in Directory.ini.	Reinstall.	
13104	FFlipInput	[%s] %s (%s): Failed in Display Menu Acquisition[Record]	The menu database was damaged.	Reinstall.	
13108	FFlipInput	[%s] %s (%s): Failed in Exposure Menu Acquisition	The menu database was damaged.	Reinstall.	
13109	FFlipInput	[%s] %s (%s): Next Set Number Data Get Error	The registry was damaged.	Reinstall.	
13110	FFlipInput	[%s] %s (%s): Next Set Number Data Set Error	The registry was damaged.	Reinstall.	
13111	FFlipInput	[%s] %s (%s): System ID Data Get Error	The system setup database was damaged.	Reinstall.	
13112	FFlipInput	[%s] %s (%s): Auto Distribution Data Get Error	The system setup database was damaged.	Reinstall.	
13113	FFlipInput	[%s] %s (%s): Enable Selector Data Get Error	The system setup database was damaged.	Reinstall.	
13114	FFlipInput	[%s] %s (%s): Auto Menu Select Data Get Error	The system setup database was damaged.	Reinstall.	
13115	FFlipInput	[%s] %s (%s): Next Set Number Min Data Get Error	The system setup database was damaged.	Reinstall.	
13116	FFlipInput	[%s] %s (%s): Next Set Number Max Data Get Error	The system setup database was damaged.	Reinstall.	
13120	FFlipInput	[%s] %s (%s): Failed in Getting ID-Online Port#	The database was not found or the associated key did not exist.	Reinstall.	
13121	FFlipInput	[%s] %s (%s): Failed in ID-Online Device Name	The database was not found or the associated key did not exist.	Reinstall.	
13122	FFlipInput	[%s] %s (%s): RU Status DB Connection String Get Error	Directory.ini was damaged.	Reinstall.	

Event	Event Source	Description	Causes	Remedies	Remarks
13123	FFlipInput	[%s] %s (%s): Failed in selectable direction	The "SelectableDirection" key was not found in the system setup database or its value was incorrect.	Reinstall.	
13124	FFlipInput	[%s] %s (%s): Failed in Selectable Image Format Acquisition	The "SelectableFormat" key was not found in the system setup database or its value was incorrect.	Reinstall.	
13125	FFlipInput	[%s] %s (%s): FilmMarkDB Connection String Get Error	The "FilmMarkDB" key was not found in Directory.ini.	Reinstall.	
13126	FFlipInput	[%s] %s (%s): FilmMarkDB Connect Error	The connection character string was not properly registered for the "FilmMarkDB" key in Directory.ini.	Reinstall.	
13128	FFlipInput	[%s] %s (%s): Failed in Limit Film Copy Acquisition	The "LimitFilmCopy" key was not found in the system setup database or its value was incorrect.	Reinstall.	
13131	FFlipInput	[%s] %s (%s): Failed in Selectable EDR Mode Acquisition	The "SelectableEdrMode" key was not found in the system setup database or its value was incorrect.	Reinstall.	
13132	FFlipInput	[%s] %s (%s): Failed in Selectable Function Acquisition	The "SelectableFunction" key was not found in the system setup database or its value was incorrect.	Reinstall.	
13134	FFlipInput	[%s] %s (%s): Failed in Selectable EDR Mode Acquisition	The "SelectableFilingMode" key was not found in the system setup database or its value was incorrect.	Reinstall.	
13135	FFlipInput	[%s] %s (%s): NetDB Data Get Error	The connection character string for the network setup database was not successfully acquired or the network setup database did not exist.	Reinstall.	
13136	FFlipInput	[%s] %s (%s): Failed in Enable DistributionCode Acquisition	The "EnableDistributionCode" key was not found in the system setup database or its value was incorrect.	Reinstall.	
13137	FFlipInput	[%s] %s (%s): Failed in Enable FileString Acquisition	The "EnableFileString" key was not found in the system setup database or its value was incorrect.	Reinstall.	
13138	FFlipInput	[%s] %s (%s): Failed in Enable Function Acquisition	The "EnableFunction" key was not found in the system setup database or its value was incorrect.	Reinstall.	
13157	FFlipInput	[%s] %s (%s): Finish Mode Get Error	The system setup database was damaged.	Reinstall.	
13158	FFlipInput	[%s] %s (%s): RU Error DB Connection String Get Error	The "RuErrorDataDB" key was not found in Directory.ini.	Reinstall.	
13159	FFlipInput	[%s] %s (%s): RU Error DB Table Name Get Error	The "MsgTableName" key was not found in the system setup database.	Reinstall.	

Event	Event Source	Description	Causes	Remedies	Remarks
13160	FFlipInput	[%s] %s (%s): Call Error [RU Error CUSTOM MESSAGE BOX]	The specified ID was not registered in "RuErrorDataDB" or the custom message box was not successfully called.	Reinstall.	
13161	FFlipInput	[%s] %s (%s): Failed Display Thumbnail Image	The program was faulty or the image file was damaged.	Restart. If the problem frequently occurs, initialize the image database.	
13162	FFlipInput	[%s] %s (%s): Ip Size Unit (Inch/Metric) Get Error	The system setup database was damaged.	Reinstall.	
13165	FFlipInput	[%s] %s (%s): Image Size Code Specify Error	RU-dependent symptom.	Check the RU status.	
13166	FFlipInput	[%s] %s (%s): Pantomo Setting Get Error	The system setup database was damaged.	Repair the system setup database.	
13167	FFlipInput	[%s] %s (%s): RU Error Info Get Error	The RU error database was damaged.	Reinstall the RU software.	
13168	FFlipInput	[%s] %s (%s): RU Status Info Get Error	The RU status information database was damaged.	Reinstall the RU software.	
13177	FFlipInput	[%s] %s (%s): Default Menu Code Get Error	The system setup database was damaged.	Reinstall.	
13178	FFlipInput	[%s] %s (%s): Next Multi Frame Pair Code Data Get Error	The registry was damaged.	Reinstall.	
13179	FFlipInput	[%s] %s (%s): Next Multi Frame Pair Code Data Set Error	The registry was damaged.	Reinstall.	
13180	FFlipInput	[%s] %s (%s): Series Generation Type Data Get Error	The system setup database was damaged.	Reinstall.	
13181	FFlipInput	[%s] %s (%s): Multi Frame UID Information Get Error	The system setup database was damaged.	Reinstall.	
13182	FFlipInput	[%s] %s (%s): Failed in Getting XCON Port#	The database did not exist or the associated key was not found.	Reinstall.	
13183	FFlipInput	[%s] %s (%s): Failed in XCON Device Name	The database did not exist or the associated key was not found.	Reinstall.	
13184	FFlipInput	[%s] %s (%s): MCR Type Get Error	The system setup database was damaged.	Reinstall.	
13185	FFlipInput	[%s] %s (%s): MCR Variation Get Error	The system setup database was damaged.	Reinstall.	
13186	FFlipInput	[%s] %s (%s): Custom Card Use Get Error	The system setup database was damaged.	Reinstall.	
13187	FFlipInput	[%s] %s (%s): Font Name Get Error	The "Font" key was not found in the registry.	Reinstall the IIP because the displayed characters can be corrupted.	

Event	Event Source	Description	Causes	Remedies	Remarks
13188	FFlipInput	[%s] %s (%s): Font Size Get Error	The "FontSizeSS"/"FontSizeS"/"FontSizeM"/ "FrontSizeL"/"FontSizeLL" key was not found in the registry.	Displayed characters can be corrupted. Reinstall the IIP as necessary.	
13189	FFlipInput	[%s] %s (%s): Multibyte Flag Get Error	The "Multibyte" key was not found in the registry.	Reinstall.	
13190	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Id#]	The "LangStrDB" key was not found in Directory.ini or the ID "30700" was not registered in the character string database.	Reinstall.	
13191	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Exam#]	The "LangStrDB" key was not found in Directory.ini or the ID "30701" was not registered in the character string database.	Reinstall.	
13192	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[SBCS Patient Name]	The "LangStrDB" key was not found in Directory.ini or the ID "30702" was not registered in the character string database.	Reinstall.	
13193	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[DBCS Patient Name]	The "LangStrDB" key was not found in Directory.ini or the ID "30703" was not registered in the character string database.	Reinstall.	
13194	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Sex]	The "LangStrDB" key was not found in Directory.ini or the ID "30704" was not registered in the character string database.	Reinstall.	
13195	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Sex M]	The "LangStrDB" key was not found in Directory.ini or the ID "30705" was not registered in the character string database.	Reinstall.	
13196	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Sex F]	The "LangStrDB" key was not found in Directory.ini or the ID "30706" was not registered in the character string database.	Reinstall.	
13197	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Sex O]	The "LangStrDB" key was not found in Directory.ini or the ID "30707" was not registered in the character string database.	Reinstall.	
13198	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Date Of Birth]	The "LangStrDB" key was not found in Directory.ini or the ID "30708" was not registered in the character string database.	Reinstall.	
13199	FFlipInput	[%s] %s (%s): Failed in Limitation No Acquisition[Id#]	The "IdLength" key was not found in the system setup database.	Reinstall.	
13200	FFlipInput	[%s] %s (%s): Failed in Limitation No Acquisition[Exam#]	The "ExaminationNoLength" key was not found in the system setup database.	Reinstall.	
13201	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Depart]	The "LangStrDB" key was not found in Directory.ini or the ID "30800" was not registered in the character string database.	Reinstall.	
13202	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Paramedic]	The "LangStrDB" key was not found in Directory.ini or the ID "30800" was not registered in the character string database.	Reinstall.	

Event	Event Source	Description	Causes	Remedies	Remarks
13203	FFlipInput	[%s] %s (%s): Image Folder Path Get Error	The "Bitmap" key was not found in Directory.ini.	Reinstall.	
13204	FFlipInput	[%s] %s (%s): [Clear]Button Image Get Error	Id_Clear_U.bmp/"Id_Clear_D.bmp"/"Id_Clear_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13205	FFlipInput	[%s] %s (%s): [Ok]Button Image Get Error	Id_Ok_U.bmp/"Id_Ok_D.bmp"/"Id_Ok_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13206	FFlipInput	[%s] %s (%s): [Cancel]Button Image Get Error	Id_Cancel_U.bmp/"Id_Cancel_D.bmp"/"Id_Cancel_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13207	FFlipInput	[%s] %s (%s): [Plus]Button Image Get Error	Id_Plus_U.bmp/"Id_Plus_D.bmp"/"Id_Plus_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13208	FFlipInput	[%s] %s (%s): [Minus]Button Image Get Error	Id_Minus_U.bmp/"Id_Minus_D.bmp"/"Id_Minus_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13209	FFlipInput	[%s] %s (%s): [Next Page]Button Image Get Error	Id_NextPage_U.bmp/"Id_NextPage_D.bmp"/"Id_NextPage_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13210	FFlipInput	[%s] %s (%s): [Previous Page]Button Image Get Error	Id_PrevPage_U.bmp/"Id_PrevPage_D.bmp"/"Id_PrevPage_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13211	FFlipInput	[%s] %s (%s): RU Watch Connection Disconnected	The line was abnormal.	The program was faulty.	
13212	FFlipInput	[%s] %s (%s): No ACK Returned in RU Watch Connection	The line was abnormal.	The program was faulty.	
13213	FFlipInput	[%s] %s (%s): RU Control Connection Disconnected	The line was abnormal.	The program was faulty.	
13214	FFlipInput	[%s] %s (%s): No ACK Returned in RU Control Connection	The line was abnormal.	The program was faulty.	
13217	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Complete]	The "LangStrDB" key was not found in Directory.ini or the ID "30202" was not registered in the character string database.	Reinstall.	
13218	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[QA Unfinished]	The "LangStrDB" key was not found in Directory.ini or the ID "30201" was not registered in the character string database.	Reinstall.	
13219	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Interrupt]	The "LangStrDB" key was not found in Directory.ini or the ID "30200" was not registered in the character string database.	Reinstall.	

Event	Event Source	Description	Causes	Remedies	Remarks
13220	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Cancel]	The "LangStrDB" key was not found in Directory.ini or the ID "30203" was not registered in the character string database.	Reinstall.	
13221	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[New Study]	The "LangStrDB" key was not found in Directory.ini or the ID "30500" was not registered in the character string database.	Reinstall.	
13222	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Registered]	The "LangStrDB" key was not found in Directory.ini or the ID "30501" was not registered in the character string database.	Reinstall.	
13223	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[QA Waiting]	The "LangStrDB" key was not found in Directory.ini or the ID "30502" was not registered in the character string database.	Reinstall.	
13224	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Output Waiting]	The "LangStrDB" key was not found in Directory.ini or the ID "30503" was not registered in the character string database.	Reinstall.	
13225	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Outputted]	The "LangStrDB" key was not found in Directory.ini or the ID "30504" was not registered in the character string database.	Reinstall.	
13226	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[All]	The "LangStrDB" key was not found in Directory.ini or the ID "30505" was not registered in the character string database.	Reinstall.	
13227	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Today]	The "LangStrDB" key was not found in Directory.ini or the ID "30506" was not registered in the character string database.	Reinstall.	
13228	FFlipInput	[%s] %s (%s): Failed in ImageÅ@Acquisition[Syste-m]	The "LangStrDB" key was not found in Directory.ini or the ID "30507" was not registered in the character string database.	Reinstall.	
13229	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[StudyReseve]	The "LangStrDB" key was not found in Directory.ini or the ID "30600" was not registered in the character string database.	Reinstall.	
13230	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[StudyStart]	The "LangStrDB" key was not found in Directory.ini or the ID "30601" was not registered in the character string database.	Reinstall.	
13231	FFlipInput	[%s] %s (%s): Failed in Image Acquisition[Priority]	The bmp file path/bmp file was abnormal.	Reinstall.	
13232	FFlipInput	[%s] %s (%s): Failed in Image Acquisition[End]	The bmp file path/bmp file was abnormal.	Reinstall.	
13233	FFlipInput	[%s] %s (%s): Failed in Image Acquisition[Change]	The bmp file path/bmp file was abnormal.	Reinstall.	
13234	FFlipInput	[%s] %s (%s): [New]Button Image Get Error	The bmp file path/bmp file was abnormal.	Reinstall.	

Event	Event Source	Description	Causes	Remedies	Remarks
13235	FFlipInput	[%s] %s (%s): [Repeat]Button Image Get Error	The bmp file path/bmp file was abnormal.	Reinstall.	
13236	FFlipInput	[%s] %s (%s): [Again]Button Image Get Error	The bmp file path/bmp file was abnormal.	Reinstall.	
13237	FFlipInput	[%s] %s (%s): [Add]Button Image Get Error	The bmp file path/bmp file was abnormal.	Reinstall.	
13238	FFlipInput	[%s] %s (%s): [Delete]Button Image Get Error	The bmp file path/bmp file was abnormal.	Reinstall.	
13239	FFlipInput	[%s] %s (%s): [Prev]Button Image Get Error	The bmp file path/bmp file was abnormal.	Reinstall.	
13240	FFlipInput	[%s] %s (%s): [Next]Button Image Get Error	The bmp file path/bmp file was abnormal.	Reinstall.	
13241	FFlipInput	[%s] %s (%s): [Monitor Mode]Button Image Get Error	The bmp file path/bmp file was abnormal.	Reinstall.	
13242	FFlipInput	[%s] %s (%s): [QA]Button Image Get Error	The bmp file path/bmp file was abnormal.	Reinstall.	
13243	FFlipInput	[%s] %s (%s): [Change]Button Image Get Error	The bmp file path/bmp file was abnormal.	Reinstall.	
13244	FFlipInput	[%s] %s (%s): [AP/PA]Button Image Get Error	The bmp file path/bmp file was abnormal.	Reinstall.	
13245	FFlipInput	[%s] %s (%s): [EDR Mode]Button Image Get Error	The bmp file path/bmp file was abnormal.	Reinstall.	
13246	FFlipInput	[%s] %s (%s): [Film Format]Button Image Get Error	The bmp file path/bmp file was abnormal.	Reinstall.	
13247	FFlipInput	[%s] %s (%s): [Detail]Button Image Get Error	The bmp file path/bmp file was abnormal.	Reinstall.	
13248	FFlipInput	[%s] %s (%s): [New]Button ToolTipText Get Error	The character string database was damaged.	Reinstall.	
13249	FFlipInput	[%s] %s (%s): [Repeat]Button ToolTipText Get Error	The character string database was damaged.	Reinstall.	
13250	FFlipInput	[%s] %s (%s): [Again]Button ToolTipText Get Error	The character string database was damaged.	Reinstall.	

Event	Event Source	Description	Causes	Remedies	Remarks
13251	FFlipInput	[%s] %s (%s): [Add]Button ToolTipText Get Error	The character string database was damaged.	Reinstall.	
13252	FFlipInput	[%s] %s (%s): [Delete]Button ToolTipText Get Error	The character string database was damaged.	Reinstall.	
13253	FFlipInput	[%s] %s (%s): [Prev]Button ToolTipText Get Error	The character string database was damaged.	Reinstall.	
13254	FFlipInput	[%s] %s (%s): [Next]Button ToolTipText Get Error	The character string database was damaged.	Reinstall.	
13255	FFlipInput	[%s] %s (%s): [Monitor Mode]Button ToolTipText Get Error	The character string database was damaged.	Reinstall.	
13256	FFlipInput	[%s] %s (%s): [QA]Button ToolTipText Get Error	The character string database was damaged.	Reinstall.	
13257	FFlipInput	[%s] %s (%s): [Change]Button ToolTipText Get Error	The character string database was damaged.	Reinstall.	
13258	FFlipInput	[%s] %s (%s): [AP/PA]Button ToolTipText Get Error	The character string database was damaged.	Reinstall.	
13259	FFlipInput	[%s] %s (%s): [EDR Mode]Button ToolTipText Get Error	The character string database was damaged.	Reinstall.	
13260	FFlipInput	[%s] %s (%s): [Film Format]Button ToolTipText Get Error	The character string database was damaged.	Reinstall.	
13261	FFlipInput	[%s] %s (%s): [Detail]Button ToolTipText Get Error	The character string database was damaged.	Reinstall.	
13262	FFlipInput	[%s] %s (%s): Failed in Image Acquisition[New]	The bmp file path/bmp file was abnormal.	Reinstall.	
13263	FFlipInput	[%s] %s (%s): Failed in Image Acquisition[Normal]	Id_NormalImage_U.bmp/"Id_NormalImage_ D.bmp"/"Id_NormalImage_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13264	FFlipInput	[%s] %s (%s): Failed in Image Acquisition[LR]	Id_LR_Reverse_U.bmp/"Id_LR_Reverse_ D.bmp"/"Id_LR_Reverse_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13265	FFlipInput	[%s] %s (%s): Failed in Image Acquisition[TB]	Id_TB_Reverse_U.bmp/"Id_TB_Reverse_ D.bmp"/"Id_TB_Reverse_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	

Event	Event Source	Description	Causes	Remedies	Remarks
13266	FFlipInput	[%s] %s (%s): Failed in Image Acquisition[TB LR]	Id_Rotation180_U.bmp/"Id_Rotation180_ D.bmp"/"Id_Rotation180_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13267	FFlipInput	[%s] %s (%s): Failed in Image Acquisition[Rotation]	Id_Rotation90_U.bmp/"Id_Rotation90_D.bmp"/ "Id_Rotation90_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13268	FFlipInput	[%s] %s (%s): Failed in Image Acquisition[Single]	Id_Single_U.bmp/"Id_Single_D.bmp"/"Id_ Single_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13269	FFlipInput	[%s] %s (%s): Failed in Image Acquisition[Twin]	Id_Twin_U.bmp/"Id_Twin_D.bmp"/"Id_Twin_ X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13270	FFlipInput	[%s] %s (%s): An Illegal Film Mark Character Was Detected	The film mark database was damaged.	Reinstall.	
13271	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[FIX]	The "LangStrDB" key was not found in Directory.ini or the ID "33502" was not registered in the character string database.	Reinstall.	
13272	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Skfix]	The "LangStrDB" key was not found in Directory.ini or the ID "33503" was not registered in the character string database.	Reinstall.	
13273	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[SEMI-X]	The "LangStrDB" key was not found in Directory.ini or the ID "33504" was not registered in the character string database.	Reinstall.	
13274	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition [DensityAverage]	The "LangStrDB" key was not found in Directory.ini or the ID "33505" was not registered in the character string database.	Reinstall.	
13275	FFlipInput	[%s] %s (%s): [Utility]Button Image Get Error	Id_Utility_U.bmp/"Id_Utility_D.bmp"/"Id_Utility_ X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13276	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Alarm Stop]	The "LangStrDB" key was not found in Directory.ini or the ID "32700" was not registered in the character string database.	Reinstall.	
13277	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Exit]	The character string database was damaged.	Reinstall.	
13278	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[User Utility]	The character string database was damaged.	Reinstall.	
13279	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[List Setting]	The character string database was damaged.	Reinstall.	

Event	Event Source	Description	Causes	Remedies	Remarks
13280	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Version]	The character string database was damaged.	Reinstall.	
13281	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[CANCEL]	The character string database was damaged.	Reinstall.	
13282	FFlipInput	[%s] %s (%s): [Clear]Button Image Get Error	The bmp file path/bmp file was abnormal.	Reinstall.	
13283	FFlipInput	[%s] %s (%s): [Clear]Button ToolTipText Get Error	The character string database was damaged.	Reinstall.	
13284	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[CANCEL]	The "LangStrDB" key was not found in Directory.ini or the ID "35000" was not registered in the character string database.	Reinstall.	
13285	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[DUST]	The "LangStrDB" key was not found in Directory.ini or the ID "35001" was not registered in the character string database.	Reinstall.	
13286	FFlipInput	[%s] %s (%s): Tooltip Text Get Error	The character string database was damaged.	Reinstall.	
13287	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[TitleBar]	The character string database was damaged.	Reinstall.	
13288	FFlipInput	[%s] %s (%s): Failed in Caption Acquisition[Option]	The character string database was damaged.	Reinstall.	
13289	FFlipInput	[%s] %s (%s): Version Info Get Error	The registry was damaged.	Reinstall.	
13290	FFlipInput	[%s] %s (%s): Option List Get Error	The registry was damaged.	Reinstall.	
13291	FFlipInput	[%s] %s (%s): [Cassette Acceptable]Image Get Error	Id_RuProcess_I.bmp was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13292	FFlipInput	[%s] %s (%s): [Cassette Unacceptable]Image Get Error	Id_RuProcessN_I.bmp was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13293	FFlipInput	[%s] %s (%s): [Miss]Image Get Error	The bmp file path/bmp file was abnormal.	Reinstall.	
13294	FFlipInput	[%s] %s (%s): [Image Style]Button Image Get Error	Id_ApPa_U.bmp/"Id_ApPa_D.bmp"/"Id_ApPa_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13295	FFlipInput	[%s] %s (%s): [EDR]Button Image Get Error	Id_Edr_U.bmp/"Id_Edr_D.bmp"/"Id_Edr_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	

Event	Event Source	Description	Causes	Remedies	Remarks
13296	FFlipInput	[%s] %s (%s): [Function]Button Image Get Error	Id_Edr_U.bmp/"Id_Edr_D.bmp"/"Id_Edr_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13297	FFlipInput	[%s] %s (%s): [Film Count]Button Image Get Error	Id_FilmCount_U.bmp/"Id_FilmCount_D.bmp"/" Id_FilmCount_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13298	FFlipInput	[%s] %s (%s): [Ip Size]Button Image Get Error	Id_IpSize_U.bmp/"Id_IpSize_D.bmp"/"Id_ IpSize_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13299	FFlipInput	[%s] %s (%s): [Image Format]Button Image Get Error	Id_FilmFormat_U.bmp/"Id_FilmFormat_D.bmp"/ "Id_FilmFormat_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13300	FFlipInput	[%s] %s (%s): [Filing]Button Image Get Error	Id_FilingMode_U.bmp/"Id_FilingMode_D.bmp"/ "Id_FilingMode_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13301	FFlipInput	[%s] %s (%s): [Film Marke]Button Image Get Error	Id_FilmMark_U.bmp/"Id_FilmMark_D.bmp"/"Id_ FilmMark_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13302	FFlipInput	[%s] %s (%s): [Distribution Code]Button Image Get Error	Id_DistributionCode_U.bmp/"Id_DistributionCode _D.bmp"/"Id_DistributionCode_X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13303	FFlipInput	[%s] %s (%s): [CSSS]Button Image Get Error	Id_CsCs_U.bmp/"Id_CsCs_D.bmp"/"Id_CsCs_ X.bmp" was not found in the path to an image folder or the image format was illegal.	Reinstall the IIP because the button cannot be displayed normally.	
13304	FFlipInput	[%s] %s (%s): Image Data Connection Disconnected	The line was abnormal.	Check the line.	
13309	FFlipInput	[%s] %s (%s): Failed in Patient Information	The patient information contained an illegal character string.	Ensure that the patient information does not contain any illegal character string.	
13345	FFIdDepartSelect	%1 (%2) : Database Data Get Error%n Database [%3]%n Table [%4]%n Key [%5]	The database was damaged.	Reinstall.	
13345	FFIdFilmMark	%1 (%2) : Database Data Get Error%n Database [%3]%n Table [%4]%n Key [%5]	The database was damaged.	Reinstall.	
13345	FFIdMcrControl	IdMcrControl (threadMcrRead) : Database Data Get Error	The database was faulty.	Reinstall.	

Event	Event Source	Description	Causes	Remedies	Remarks
13345	FFIdParamedicSelect	%1 (%2) : Database Data Get Error%n Database [%3]%n Table [%4]%n Key [%5]	The database was damaged.	Reinstall.	
13345	FFIdPatInfoInput	%1 (%2) : Database Data Get Error%n Database [%3]%n Table [%4]%n Key [%5]	The database was damaged.	Reinstall.	
13345	FFIipInput	%1 (%2) : Database Data Get Error%n Database [%3]%n Table [%4]%n Key [%5]	The database was damaged.	Reinstall.	
13346	FFIipInput	%1 (%2) : Patient Information Check Error%n Item [%3]%n Error [%4]	The patient information contained illegal information.	Correct the patient information setup.	
13347	FFIipInput	%1 (%2) : Caption Get Error%n CaptionId [%3]	The character string database was damaged.	Reinstall.	
13348	FFIdDepartSelect	%1 (%2) : Registry Data Get Error%n Value [%3]	The registry was damaged.	Reinstall.	
13348	FFIdFilmMark	%1 (%2) : Registry Data Get Error%n Value [%3]	The registry was damaged.	Reinstall.	
13348	FFIdMenuChange	%1 (%2) : Registry Data Get Error%n Value [%3]	The registry was damaged.	Reinstall.	
13348	FFIdParamedicSelect	%1 (%2) : Registry Data Get Error%n Value [%3]	The registry was damaged.	Reinstall.	
13348	FFIdPatInfoInput	%1 (%2) : Registry Data Get Error%n Value [%3]	The registry was damaged.	Reinstall.	
13348	FFIipInput	%1 (%2) : Registry Data Get Error%n Value [%3]	The registry was damaged.	Reinstall.	
13349	FFIdDepartSelect	%1 (%2) : INI File Data Get Error%n Key [%3]	Directory.ini was damaged.	Reinstall.	

Event	Event Source	Description	Causes	Remedies	Remarks
13349	FFIdFilmMark	%1 (%2) : INI File Data Get Error%n Key [%3]	Directory.ini was damaged.	Reinstall.	
13349	FFIdMenuChange	%1 (%2) : INI File Data Get Error%n Key [%3]	Directory.ini was damaged.	Reinstall.	
13349	FFIdParamedicSelect	%1 (%2) : INI File Data Get Error%n Key [%3]	Directory.ini was damaged.	Reinstall.	
13349	FFIdPatInfoInput	%1 (%2) : INI File Data Get Error%n Key [%3]	Directory.ini was damaged.	Reinstall.	
13349	FFIipInput	%1 (%2) : INI File Data Get Error%n Key [%3]	Directory.ini was damaged.	Reinstall.	
13350	FFIdFilmMark	%1 (%2) : Bitmap Image Get Error%n BMP File [%3]	The bmp file path or bmp file was abnormal.	Reinstall.	
13350	FFIdMenuChange	%1 (%2) : Bitmap Image Get Error%n BMP File [%3]	The bmp file path or bmp file was abnormal.	Reinstall.	
13350	FFIipInput	%1 (%2) : Bitmap Image Get Error%n BMP File [%3]	The bmp file path or bmp file was abnormal.	Reinstall.	
13352	FFIipInput	%1 (%2) : Dicom MWM & PPS Option Not Install	The DICOM MWM & PPS option was not installed.	Install the DICOM MWM & PPS option.	
13353	FFIipInput	%1 (%2) : Dicom MWM Option Not Install	The DICOM MWM option was not installed.	Install the DICOM MWM option.	
13362	FFIipInput	%1 (%2) : Not Entry Host Name	The host name for the local enclosure was not successfully acquired.	With the service utility, register the host information about the PPS local enclosure.	
13370	FFIipInput	%1 (%2) : PPS Request Failure [IN PROGRESS]	The equipment connection was faulty or the remote equipment power was OFF.	Retry.	
13371	FFIipInput	%1 (%2) : PPS Request Failure [COMPLETED]	The equipment connection was faulty or the remote equipment power was OFF.	Retry.	
13372	FFIipInput	%1 (%2) : PPS Request Failure [DISCONTINUED]	The equipment connection was faulty or the remote equipment power was OFF.	Retry.	
13382	FFIipInput	%1 (%2) : Study List Refresh Exception%nError [%3]		Retry.	
13386	FFIipInput	%1 (%2) : Failed in data reception%n[Online Time Out]	The serial cable was broken or the connected equipment did not respond.	Reinstall.	

Event	Event Source	Description	Causes	Remedies	Remarks
13389	FFIdDepartSelect	%1 (%2) : Database Connection Error%n Database [%3]%n	The database was damaged.	Reinstall.	
13389	FFIdFilmMark	%1 (%2) : Database Connection Error%n Database [%3]%n	The database was damaged.	Reinstall.	
13389	FFIdParamedicSelect	%1 (%2) : Database Connection Error%n Database [%3]%n	The database was damaged.	Reinstall.	
13389	FFIdPatInfoInput	%1 (%2) : Database Connection Error%n Database [%3]%n	The database was damaged.	Reinstall.	
13389	FFIipInput	%1 (%2) : Database Connection Error%n Database [%3]%	The database was damaged.	Reinstall.	
13392	FFIipInput	%1 (%2) : BCR Control Initialize Error	The barcode reader was not connected.	Connect the barcode reader.	
13420	FFIipInput	%1 (%2) : Failed in Menu Clear.%nInternal Error in Builtin [%3]	A problem occurred in the 550X unit when a cleared menu was reported.	Check the 550X unit.	
13421	FFIipInput	%1 (%2) : Menu Clear Command Time out [%3]	A timeout occurred because the 550X unit did not respond to a report about a cleared menu	Check the 550X unit (power supply, cable, etc.).	
13423	FFIipInput	%1 (%2) : Failed in Ip Shelter.%nFatal Error [%3]	A problem occurred in the 550X unit during the IP evacuation sequence.	Check the 550X unit.	
13424	FFIipInput	%1 (%2) : Failed in Ip Shelter.%nIntervention Error in Builtin [%3]	A problem occurred in the 550X unit during the IP evacuation sequence.	Check the 550X unit. Solve the problem with a UTL or the like.	
13425	FFIipInput	%1 (%2) : Failed in Ip Shelter.%nInternal Error in Builtin [%3]	A problem occurred in the 550X unit during the IP evacuation sequence.	Check the 550X unit.	
13426	FFIipInput	%1 (%2) : Ip Shelter Command Time out [%3]	A timeout occurred because the 550X unit did not respond to an IP evacuation request.	Check the 550X unit (power supply, cable, etc.)	
13428	FFIipInput	%1 (%2) : Failed in Menu Fixed.%nConnection Error to Builtin [%3]	A line abnormality was encountered.	Check the line.	
13429	FFIipInput	%1 (%2) : Failed in Menu Fixed.%nInternal Error in Builtin [%3]	A problem occurred in the 550X unit when a finalized menu was reported.	Check the 550X unit.	
13430	FFIipInput	%1 (%2) : Menu Fixed Command Time out [%3]	A timeout occurred because the 550X unit did not respond to a report about a finalized menu.	Check the 550X unit (power supply, cable, etc.).	
13432	FFIipInput	%1 (%2) : Failed in Ip Size%nConnection Error to Builtin [%3]	A line abnormality was encountered.	Check the line.	

Event	Event Source	Description	Causes	Remedies	Remarks
13435	FFlipInput	%1 (%2) : Failed in Ip Size.%nInternal Error in Builtin [%3]	A problem occurred in the 550X unit when a size notification request was issued.	Check the 550X unit.	
13436	FFlipInput	%1 (%2) : Ip Size Command Time out [%3]	A timeout occurred because the 550X unit did not respond to a size notification request.	Check the 550X unit (power supply, cable, etc.).	
13438	FFlipInput	%1 (%2) : Failed in Ip Set.%nFatal Error [%3]	A problem occurred in the 550X unit during the IP setup sequence.	Check the 550X unit.	
13439	FFlipInput	%1 (%2) : Failed in Ip Set.%nIntervention Error in Builtin [%3]	A problem occurred in the 550X unit during the IP setup sequence.	Check the 550X unit. Solve the problem with a UTL or the like.	
13440	FFlipInput	%1 (%2) : Failed in Ip Set.%nInternal Error in Builtin [%3]	A problem occurred in the 550X unit during the IP setup sequence.	Check the 550X unit.	
13441	FFlipInput	%1 (%2) : Ip Set Command Time out [%3]	A timeout occurred because the 550X unit did not respond to an IP setup request.	Check the 550X unit (power supply, cable, etc.).	
13442	FFlipInput	%1 (%2) : Ip Delete Command Time out [%3]	A timeout occurred because the 550X unit did not issue an IP deletion request.	Check the 550X unit (power supply, cable, etc.).	
13443	FFlipInput	%1 (%2) : Cannot Change Patient Info EditMode [%3]	An attempt was made to change the patient information during an image input sequence (patient information change button: inactive).	Change the information after completion of image input.	
13444	FFlipInput	%1 (%2) : Cannot End Examination ExamEndMode [%3]	An attempt was made to terminate a study during an image input sequence (study end button: inactive).	Terminate the study after completion of image input.	
13447	FFlipInput	%1 : IipInput.exe [Starts]	IipInput.exe is started (information).		
13448	FFlipInput	%1 : IipInput.exe [Normal Termination]	IipInput.exe is terminated (information).		
13449	FFlipInput	%1 : IipInput.exe [Forced Termination]	IipInput.exe is terminated (information).		
13451	FFlipInput	%1 (%2) : Failed in Get Ip Information Response.%nConnection Error to Builtin [%3]	Line error.	Check the 550X unit (power supply, cable, etc.).	
13452	FFlipInput	%1 (%2) : Get Ip Information Response Time out [%3]	A timeout occurred when an attempt was made to respond to an ID information request from the 550X unit.	Check the 550X unit (power supply, cable, etc.).	
13457	FFlipInput	%1 (%2) : Image Processing Information <InImg>	This error occurs if the image processing parameter file does not exist.		
13458	FFlipInput	%1 (%2) : Failed in Connection Between Reader and Console.%nIIP[%3]%nRU[-%4]	Setup error.	Change IIP's SysConfig setup or RU's connection style.	

Event	Event Source	Description	Causes	Remedies	Remarks
13459	FFlipInput	%1 (%2) : Wait Timeout for X-Cont Shot Result	The XCON shot result reception timeout value for built-in type exposures was found improper.	Review the XCON shot result reception timeout value for built-in type exposures.	
13462	FFlipInput	%1 (%2) : Ordering Exposure Menu Not Entry [%3]	The exposure menu received as the ordering information was not registered.	Register the exposure menu with the user utility.	
13470	FFlipInput	%1 (%2) : Exposure Menu Register Error.	The exposure menu received as the ordering information was not registered.	Register the exposure menu with the user utility.	
13471	FFlipInput	%1 (%2) : All Exposure Menu Register Error.	The exposure menu received as the ordering information was not registered	Register the exposure menu with the user utility.	
13472	FFlipInput	%1 (%2) : Selected Menu is Done. XCON Result Information is annulled. [%3]	The exposure process for the selected exposure menu was already performed. The result data received from the XCON will be discarded.	Select a menu for which an exposure process has not been performed.	
13473	FFlipInput	%1 (%2) : Menu is not Selected. XCON Result Information is annulled. [%3]	No exposure menu was selected. The result data received from the XCON will be discarded.	Select a menu for which an exposure process has not been performed.	
13901	IIPInputEz	%1 : Registory Value Get/Set Error%n [Key] %2%n [Exp] %3%n %4%n %5	The acquisition/setup key or registration information was abnormal.	Check the registry key.	
13902	IIPInputEz	%1 : Database Connection Error%n [DB] %2%n [Exp] %3%n %4%n %5	This error is attributable to an abnormal character string in Directory.ini, an incorrect database file name, or a damaged database.	Check Directory.ini or database file name.	
13903	IIPInputEz	%1 : Database Data Get/Set Error%n [DB] %2%n [Table] %3%n [Field] %4%n [Exp] %5	The acquisition/setup key or database was abnormal.	Check the database table/field name.	
13903	IIPInputEz	%1 : Dicom Data Object Get/Set Error%n [Tag] %2%n [Exp] %3%n %4%n %5	The DDO acquisition/setup tag was abnormal.	Check the DDO tag.	
13904	IIPInputEz	%1 : Other Error%n [Proceedure] %2%n [ErrorCode] %3%n [Exp] %4%n %5	Unknown error.		

Event	Event Source	Description	Causes	Remedies	Remarks
13998	FFlipInput	%1 (%2) : [%3]	General information event log.		
19001	FFDICOMCommit SCU	Initialization failed. [DPM Invoke fail]	DPM thread generation was unsuccessful. The system was unstable.	Restart.	
19001	FFDICOMCommit SCU	Initialization failed. [DPC Invoke fail]	DPC thread generation was unsuccessful. The system was unstable.	Restart.	
19001	FFDICOMCommit SCU	Initialization failed. [Insufficient memory]	Instance generation was unsuccessful. The system was unstable.	Restart.	
19001	FFDICOMEchoSCU	Initialization failed. [DPM Invoke fail]	DPM thread generation was unsuccessful. The system was unstable.	Restart.	
19001	FFDICOMEchoSCU	Initialization failed. [Insufficient memory]	Instance generation was unsuccessful. The system was unstable.	Restart.	
19001	FFDICOMMPPSSCU	Initialization failed. [DPM Invoke fail]	DPM thread generation was unsuccessful. The system was unstable.	Restart.	
19001	FFDICOMMPPSSCU	Initialization failed. [Insufficient memory]	Instance generation was unsuccessful. The system was unstable.	Restart.	
19001	FFDICOMMWLSCU	Initialization failed. [DPM Invoke fail]	DPM thread generation was unsuccessful. The system was unstable.	Restart.	
19001	FFDICOMMWLSCU	Initialization failed. [Insufficient memory]	Instance generation was unsuccessful. The system was unstable.	Restart.	
19001	FFDICOMPrintSCU	Initialization failed. [DPM Invoke fail]	DPM thread generation was unsuccessful. The system was unstable.	Restart.	
19001	FFDICOMPrintSCU	Initialization failed. [Insufficient memory]	Instance generation was unsuccessful. The system was unstable.	Restart.	
19001	FFDICOMStoreSCP	Initialization failed. [DPM Invoke fail]	DPM thread generation was unsuccessful. The system was unstable.	Restart.	
19001	FFDICOMStoreSCP	Initialization failed. [DPC Invoke fail]	DPC thread generation was unsuccessful. The system was unstable.	Restart.	
19001	FFDICOMStoreSCP	Initialization failed. [Insufficient memory]	Instance generation was unsuccessful. The system was unstable.	Restart.	
19001	FFDICOMStoreSCU	Initialization failed. DPM Invoke fail]	DPM thread generation was unsuccessful. The system was unstable.	Restart.	
19001	FFDICOMStoreSCU	Initialization failed. [Insufficient memory]	Instance generation was unsuccessful. The system was unstable.	Restart.	
19002	FFDICOMCommit SCU	Method Invoke failed. [PushPrc]	A message was not successfully transmitted. The system was unstable.	Restart.	
19002	FFDICOMCommit SCU	Method Invoke failed. [DiscontinueRequest]	A message was not successfully transmitted. The system was unstable.	Restart.	
19002	FFDICOMEchoSCU	Method Invoke failed. [EchoPrc]	A message was not successfully transmitted. The system was unstable.	Restart.	

Event	Event Source	Description	Causes	Remedies	Remarks
19002	FFDICOMMPPSSCU	Method Invoke failed. [CreatePrc]	A message was not successfully transmitted. The system was unstable.	Restart.	
19002	FFDICOMMPPSSCU	Method Invoke failed. [SetPrc]	A message was not successfully transmitted. The system was unstable.	Restart.	
19002	FFDICOMMWLSCU	Method Invoke failed. [FindPrc]	A message was not successfully transmitted. The system was unstable.	Restart.	
19002	FFDICOMMWLSCU	Method Invoke failed. [CancelPrc]	A message was not successfully transmitted. The system was unstable.	Restart.	
19002	FFDICOMPrintSCU	Method Invoke failed. [PrintPrc]	A message was not successfully transmitted. The system was unstable.	Restart.	
19002	FFDICOMPrintSCU	Method Invoke failed. [GetPrc]	A message was not successfully transmitted. The system was unstable.	Restart.	
19002	FFDICOMPrintSCU	Method Invoke failed. [DiscontinueRequest]	A message was not successfully transmitted. The system was unstable.	Restart.	
19002	FFDICOMStoreSCU	Method Invoke failed. [StorePrc]	A message was not successfully transmitted. The system was unstable.	Restart.	
19003	FFDICOMCommit SCU	File I/O failed. [Communication log file name]	A communication log file was not successfully opened.	Although the communication log cannot be obtained, execution is possible.	
19003	FFDICOMEchoSCU	File I/O failed. [Communication log file name]	A communication log file was not successfully opened.	Although the communication log cannot be obtained, execution is possible.	
19003	FFDICOMMPPSSCU	File I/O failed. [Communication log file name]	A communication log file was not successfully opened.	Although the communication log cannot be obtained, execution is possible.	
19003	FFDICOMMWLSCU	File I/O failed. [Communication log file name]	A communication log file was not successfully opened.	Although the communication log cannot be obtained, execution is possible.	
19003	FFDICOMPrintSCU	File I/O failed. [Communication log file name]	A communication log file was not successfully opened.	Although the communication log cannot be obtained, execution is possible.	
19003	FFDICOMStoreSCP	File I/O failed. [Communication log file name]	An adequate disk space was not available.	Check the available disk space.	
19003	FFDICOMStoreSCP	File I/O failed. [Communication log file name]	An image-related file was not successfully accessed. The problem is attributable to a disk.	Restart. If the same symptom frequently occurs, replace the disk.	
19003	FFDICOMStoreSCP	File I/O failed. [Communication log file name]	A communication log file was not successfully opened.	Although the communication log cannot be obtained, execution is possible.	
19003	FFDICOMStoreSCU	File I/O failed. [Communication log file name]	A communication log file was not successfully opened.	Although the communication log cannot be obtained, execution is possible.	

Event	Event Source	Description	Causes	Remedies	Remarks
19900	IIPInputEz	%1 : Registory Value Get/Set Error%n [Key] %2%n [Exp] %3%n %4%n %5	The acquisition/setup key or registration information was abnormal.	Check the registry key.	
19901	IIPInputEz	%1 : Database Connection Error%n [DB] %2%n [Exp] %3%n %4%n %5	This error is attributable to an abnormal character string in Directory.ini, an incorrect database file name, or a damaged database.	Check Directory.ini or database file name.	
19902	IIPInputEz	%1 : Database Data Get/Set Error%n [DB] %2%n [Table] %3%n [Field] %4%n [Exp] %5	The acquisition/setup key or database was abnormal.	Check the database table/field name.	
19903	IIPInputEz	%1 : Dicom Data Object Get/Set Error%n [Tag] %2%n [Exp] %3%n %4%n %5	The DDO acquisition/setup tag was abnormal.	Check the DDO tag.	
19904	IIPInputEz	%1 : Other Error%n [Proceedure] %2%n [ErrorCode] %3%n [Exp] %4%n %5	Unknown error.		
20001	FFCtrlProc	It failed in CreateProcess. It has the possibility that an executive file doesn't exist. The start treatment can't be continued. /CtrlProc:RunProc() %1	A subprocess was not successfully started up. The system was unstable or a necessary executable file was not found.	Restart. If the same symptom occurs after a restart, reinstall.	A subsystem name is placed in the "%1" position.
20002	FFCtrlProc	Process start information is unusual. The start treatment can't be continued. . /CtrlProc:RunProc()	An illegal parameter was used for process startup. It is conceivable that the contents of the process information database were wrong.	Restart. If the same symptom occurs after a restart, reinstall.	
20003	FFCtrlProc	It failed in the completion message preparation treatment. The treatment can't be continued. /CtrlProc:EndProc()	A process end request message was not successfully created. It is conceivable that the available resource was not adequate or that the system was unstable.	Restart.	

Event	Event Source	Description	Causes	Remedies	Remarks
20004	FFCtrlProc	It failed in the completion message transmitting treatment. The treatment can't be continued. /CtrlProc:EndProc()	A process end request message was not successfully transmitted. It is conceivable that the transmission destination process was down or that the transmission destination was wrong.	Restart.	
20005	FFCtrlProc	It failed in the switching message preparation treatment. The treatment can't be continued. /CtrlProc:ChangeProc()	A window show/hide message was not successfully created. It is conceivable that the available resource was not adequate or that the system was unstable.	Restart.	
20006	FFCtrlProc	It failed in the switching message transmitting treatment. The treatment can't be continued. /CtrlProc:ChangeProc()	A window show/hide message was not successfully transmitted. It is conceivable that the transmission destination process was down or that the transmission destination was wrong.	Restart. If the same symptom occurs after a restart, reinstall.	
20007	FFCtrlProc	It failed in CreateProcess. It has the possibility that an executive file doesn't exist. The start treatment can't be continued. /CtrlProc:SetInitProcEnd()	A window show/hide message was not successfully transmitted. It is conceivable that the transmission destination process was down or that the transmission destination was wrong.	Restart. If the same symptom occurs after a restart, reinstall.	
20102	FFCustomMsgBox	[20102] Setup not completed.	It is conceivable that the application key was not installed.	Install the application key.	Main
20104	FFCustomMsgBox	[20104] Failed in securing system settings.	It is conceivable that the file was damaged or deleted.	Restart. If the same symptom occurs after a restart, reinstall.	Main
20104	FFIIPMAIN	It failed in the acquisition of the configration information. The initialization treatment can't be continued. /MainProcess:Main()	The configuration information was not successfully acquired. This error occurred due to an improper installation or system instability.	Restart. If the same symptom recurs, perform a reinstallation.	
20105	FFCustomMsgBox	[20105] Failed in accessing the process control database.	It is conceivable that the file was damaged or deleted.	Restart. If the same symptom occurs after a restart, reinstall.	Main
20105	FFIIPMAIN	It failed in the acquisition of the process information data base. The initialization treatment can't be continued. /MainProcess:Main()	Data was not successfully acquired from the process information database. This error occurred due to an improper installation or system instability.	Restart. If the same symptom recurs, perform a reinstallation.	
20106	FFCustomMsgBox	[20106] Failed in accessing the message distribution control database.	It is conceivable that the file was damaged or deleted.	Restart. If the same symptom occurs after a restart, reinstall.	Main

Event	Event Source	Description	Causes	Remedies	Remarks
20106	FFIIPMAIN	It failed in opening of the message data base. The initialization treatment can't be continued. /MainProcess:Main()	The message database was not successfully opened. This error occurred due to an improper installation or system instability.	Restart. If the same symptom recurs, perform a reinstallation.	
20108	FFCustomMsgBox	[20108] Failed in process activation.	A subprocess was not successfully started up for some reason.	View the event logs around to examine the cause.	Main
20108	FFIIPMAIN	It failed in the start of the sub-process. The initialization treatment can't be continued. /MainProcess:Main()	The subprocess was not successfully started. This error occurred due to an improper installation or system instability.	Restart. If the same symptom recurs, perform a reinstallation.	
20110	FFCustomMsgBox	[20110] Failed in initialization processing.	A subprocess was not successfully started up. It is conceivable that the system was unstable.	Restart. If the same symptom occurs after a restart, reinstall.	Main
20110	FFIIPMAIN	It failed in the start of the sub-process. The initialization treatment can't be continued. /MainProcess:m_ProcessC-ontrol_OnRunProcComplet-e()	The subprocess was not successfully started. This error occurred due to an improper installation or system instability	Restart. If the same symptom recurs, perform a reinstallation.	
20118	FFCustomMsgBox	[20118] Failed in process termination.	An error occurred for some reason during subprocess end processing.	No particular remedy needs be taken.	Main
20118	FFIIPMAIN	It failed in the completion of the sub-process. /MainProcess:ProcessEndR-equirement()	The subprocess was not successfully terminated. The system was unstable.	Restart.	
20124	FFCustomMsgBox	[20124] Failed in process switchover.	A subprocess was not successfully conotrolled for some reason.	View the event logs around to examine the cause.	Main
20124	FFIIPMAIN	It failed in switching of the process. /MainProcess:xxxxx	A subprocess changeover was not successfully effected. The target subprocess was not active or the system was unstable.	Restart.	
21001	FFCustomMsgBox	[21001] Failed in connecting to the image database.	The problem is attributable, for instance, to an inactive SQL service manager or uninitialized image database.	Check whether the SQL service manager is normally operating. If the symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	List
21002	FFCustomMsgBox	[21002] Failed in accessing the image database.	The problem is attributable, for instance, to an inactive SQL service manager or uninitialized image database.	Check whether the SQL service manager is normally operating. If the symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	List

Event	Event Source	Description	Causes	Remedies	Remarks
21003	FFCustomMsgBox	[21003] Failed in obtaining information from the image database.	The problem is attributable, for instance, to an inactive SQL service manager or uninitialized image database.	Check whether the SQL service manager is normally operating. If the symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	List
21004	FFCustomMsgBox	[21004] Failed in accessing the image database.	The problem is attributable, for instance, to an inactive SQL service manager or uninitialized image database.	Check whether the SQL service manager is normally operating. If the symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	Lis
21005	FFCustomMsgBox	[21005] Failed in setting information to the image database.	The problem is attributable, for instance, to an inactive SQL service manager or uninitialized image database.	Check whether the SQL service manager is normally operating. If the symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	List
21006	FFCustomMsgBox	[21006] Failed in deleting the study information.	The problem is attributable, for instance, to an inactive SQL service manager or uninitialized image database.	Check whether the SQL service manager is normally operating. If the symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	List
21007	FFCustomMsgBox	[21007] Failed in connecting to the system setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	List
21008	FFCustomMsgBox	[21008] Failed in accessing the system setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	List
21009	FFCustomMsgBox	[21009] Failed in obtaining information from the system setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	List
21010	FFCustomMsgBox	[21010] Failed in connecting to the character database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	List
21011	FFCustomMsgBox	[21011] Failed in accessing the character database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	List
21012	FFCustomMsgBox	[21012] Failed in obtaining information from the character database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	List
21013	FFCustomMsgBox	[21013] Failed in accessing the definition file.	It is conceivable that the file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	List
21014	FFCustomMsgBox	[21014] Failed in opening the registry information.	It is conceivable that the registry information was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	List
21015	FFCustomMsgBox	[21015] Failed in retrieving the registry information.	It is conceivable that the registry information was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	List
21016	FFCustomMsgBox	[21016] Failed in writing the registry information.	It is conceivable that the registry information was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	List

Event	Event Source	Description	Causes	Remedies	Remarks
21017	FFCustomMsgBox	[21017] Failed in closing the registry information.	It is conceivable that the registry information was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	List
21018	FFCustomMsgBox	[21018] Failed in receiving message.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	List
21019	FFCustomMsgBox	[21019] Failed in canceling the output processing.	The selected image was being output or already deleted.	No particular response is required.	List
21020	FFCustomMsgBox	[21020] Failed in output.	The selected image was being output or already deleted.	No particular response is required.	List
21021	FFCustomMsgBox	[21021] Failed in receiving the message.	The system was unstable.	No particular response is required.	List
21022	FFCustomMsgBox	[21022] Failed in initializing process for message communication.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	List
21023	FFCustomMsgBox	[21023] Failed in terminating process for message communication.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	List1
21052	FFMWMHelper	[MWMHelper]%1	This is an information log.	There is no particular problem with operations.	
21053	FFMWMHelper	[MWMHelper]%1	A warning condition is encountered. For details, refer to the contents of the event log.	There is no particular problem with operations.	
21054	FFMWMHelper	[MWMHelper]%1	An error occurred	Restart.	
21129	FFCustomMsgBox	[21129] The HD is full.	The remaining free space on the hard disk was not insufficient.	Delete unnecessary images. If some images are left ungenerated, generate them.	List
22103	FFIIPMAIN	It failed in the acquisition of the configration information. The initialization treatment can't be continued. /MainProcess:Main()	The version information was not successfully acquired. It is conceivable that the Version.env file did not exist in the specified directory or that the contents of the file were damaged.	Reinstall.	
22128	FFIIPMAIN	An error occurred in logfile backup treatment. /MainProcess:xxxxx	A log file backup was not successfully made. It is conceivable that the specified pathname was incorrect.	Reinstall. (Although there are no operational problems, various communication logs cannot be saved.)	
23000	FFIIPListCustomize	RegCreateKey() returned with Error at %1.%n[%2]	This problem is attributable to an unprivileged user or installation failure.	Use the normal startup procedure or perform a reinstallation.	
23000	FFIIPListSearch	RegCreateKey() returned with Error at %1.%n[%2]	This problem is attributable to an unprivileged user or installation failure.	Use the normal startup procedure or perform a reinstallation.	
23000	FFMWMStudyList	RegCreateKey() returned with Error at %1. [%2]	The RegCreateKey function returned an error.	Restart.	
23000	FFStudyList, FFOutputList	RegCreateKey() returned with Error at %1.%n[%2]	This problem is attributable to an unprivileged user or installation failure.	Use the normal startup procedure or perform a reinstallation.	
23001	FFIIPListCustomize	RegOpenKey() returned with Error at %1.%n[%2]	This problem is attributable to an unprivileged user or installation failure.	Use the normal startup procedure or perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
23001	FFIIPListSearch	RegOpenKey() returned with Error at %1.%n[%2]	This problem is attributable to an unprivileged user or installation failure.	Use the normal startup procedure or perform a reinstallation.	
23001	FFMWMStudyList	RegOpenKey() returned with Error at %1. [%2]	The RegOpenKey function returned an error.	Restart.	
23001	FFMWMStudyList	RegOpenKey() returned with Error at %1. [%2]	The registry was not successfully opened (due to a program failure or system instability).	Restart.	
23001	FFStudyList, FFOutputList	RegOpenKey() returned with Error at %1.%n[%2]	This problem is attributable to an unprivileged user or installation failure.	Use the normal startup procedure or perform a reinstallation.	
23002	FFIIPListCustomize	RegCloseKey() returned with Error at %1.%n[%2]	The problem is attributable to an unprivileged user.	Use the normal startup procedure.	
23002	FFIIPListSearch	RegCloseKey() returned with Error at %1.%n[%2]	The problem is attributable to an unprivileged user.	Use the normal startup procedure.	
23002	FFMWMStudyList	RegCloseKey() returned with Error at %1. [%2]	The RegCloseKey function returned an error.	Restart.	
23002	FFMWMStudyList	RegCloseKey() returned with Error at %1. [%2]	The registry was not successfully closed (due to a program failure or system instability).	Restart.	
23002	FFStudyList, FFOutputList	RegCloseKey() returned with Error at %1.%n[%2]	The problem is attributable to an unprivileged user.	Use the normal startup procedure.	
23003	FFIIPListCustomize	RegQueryNumericValue() returned with Error at %1.%n[%2]	The problem is attributable to an unprivileged user.	Use the normal startup procedure.	
23003	FFIIPListSearch	RegQueryNumericValue() returned with Error at %1.%n[%2]	The problem is attributable to an unprivileged user.	Use the normal startup procedure.	
23003	FFMWMStudyList	RegQueryNumericValue() returned with Error at %1. [%2]	The RegQueryNumericValue function returned an error.	Restart.	
23003	FFMWMStudyList	RegQueryNumericValue() returned with Error at %1. [%2]	This error is caused by an unsuccessful data acquisition from the registry or an improper installation.	Perform a reinstallation or restart.	
23003	FFStudyList, FFOutputList	RegQueryNumericValue() returned with Error at %1.%n[%2]	The problem is attributable to an unprivileged user.	Use the normal startup procedure.	
23004	FFIIPListCustomize	RegSetNumericValue() returned with Error at %1.%n[%2]	The problem is attributable to an unprivileged user.	Use the normal startup procedure.	
23004	FFIIPListSearch	RegSetNumericValue() returned with Error at %1.%n[%2]	The problem is attributable to an unprivileged user.	Use the normal startup procedure.	

Event	Event Source	Description	Causes	Remedies	Remarks
23004	FFMWMStudyList	RegSetNumericValue() returned with Error at %1. [%2]	The RegSetNumericValue function returned an error	Restart.	
23004	FFMWMStudyList	RegSetNumericValue() returned with Error at %1. [%2]	The data was not successfully written into the registry (due to a program failure or system instability).	Restart.	
23004	FFStudyList, FFOutputList	RegSetNumericValue() returned with Error at %1.%n[%2]	The problem is attributable to an unprivileged user.	Use the normal startup procedure.	
23005	FFIIPListCustomize	FFGetString() returned with Error at %1.%n[%2]	The problem is attributable to a damaged Directory.ini file.	Ensure that the Directory.ini file is normal, and then restart.	
23005	FFIIPListSearch	FFGetString() returned with Error at %1.%n[%2]	The problem is attributable to a damaged Directory.ini file.	Ensure that the Directory.ini file is normal, and then restart.	
23005	FFMWMStudyList	FFGetString() returned with Error at %1. [%2]	The FFGetString function returned an error.	Restart.	
23005	FFMWMStudyList	FFGetString() returned with Error at %1. [%2]	The FFGetString function failed. This problem is attributable to an improper installation.	Perform a reinstallation or restart.	
23005	FFStudyList, FFOutputList	FFGetString() returned with Error at %1.%n[%2]	The problem is attributable to a damaged Directory.ini file.	Ensure that the Directory.ini file is normal, and then restart.	
23006	FFIIPListCustomize	FFStrDBConnect() returned with Error at %1.%n[%2]	The problem is attributable to a damaged Directory.ini file or missing LangStr.mdb file.	Ensure that the Directory.ini file is normal, and then restart. Or, check the LangStr.mdb file.	
23006	FFIIPListSearch	FFStrDBConnect() returned with Error at %1.%n[%2]	The problem is attributable to a damaged Directory.ini file or missing LangStr.mdb file.	Ensure that the Directory.ini file is normal, and then restart. Or, check the LangStr.mdb file.	
23006	FFMWMStudyList	FFStrDBConnect() returned with Error at %1. [%2]	The FFStrDBConnect function failed. The problem is due to an improper installation or system instability.	Perform a reinstallation or restart.	
23006	FFMWMStudyList	FFStrDBConnect() returned with Error at %1. [%2]	The FFStrDBConnect function returned an error.	Restart.	
23006	FFStudyList, FFOutputList	FFStrDBConnect() returned with Error at %1.%n[%2]	The problem is attributable to a damaged Directory.ini file or missing LangStr.mdb file.	Ensure that the Directory.ini file is normal, and then restart. Or, check the LangStr.mdb file.	
23007	FFIIPListCustomize	FFStrDBClose() returned with Error at %1.%n[%2]	The LangStr.mdb file was damaged.	Check the LangStr.mdb file.	
23007	FFIIPListSearch	FFStrDBClose() returned with Error at %1.%n[%2]	The LangStr.mdb file was damaged.	Check the LangStr.mdb file.	
23007	FFMWMStudyList	FFStrDBClose() returned with Error at %1. [%2]	The FFStrDBClose function failed.	Restart.	
23007	FFStudyList, FFOutputList	FFStrDBClose() returned with Error at %1.%n[%2]	The LangStr.mdb file was damaged.	Check the LangStr.mdb file.	

Event	Event Source	Description	Causes	Remedies	Remarks
23008	FFIIPListCustomize	FFStrDBReadString() returned with Error at %1.%n[%2]	The LangStr.mdb file was damaged.	Check the LangStr.mdb file.	
23008	FFIIPListSearch	FFStrDBReadString() returned with Error at %1.%n[%2]	The LangStr.mdb file was damaged.	Check the LangStr.mdb file.	
23008	FFMWMStudyList	FFStrDBReadString() returned with Error at %1. [%2]	The FFStrDBReadString function returned an error.	Restart.	
23008	FFMWMStudyList	FFStrDBReadString() returned with Error at %1. [%2]	The FFStrDBReadString function failed. The problem is attributable to an improper installation.	Perform a reinstall or restart.	
23008	FFStudyList, FFOutputList	FFStrDBReadString() returned with Error at %1.%n[%2]	The LangStr.mdb file was damaged.	Check the LangStr.mdb file.	
23009	FFIIPListCustomize	FFRegGetKeySZ() returned with Error at %1.%n[%2]	The problem is attributable to an unprivileged user.	Use the normal startup procedure.	
23009	FFIIPListSearch	FFRegGetKeySZ() returned with Error at %1.%n[%2]	The problem is attributable to an unprivileged user.	Use the normal startup procedure.	
23009	FFMWMStudyList	FFRegGetKeySZ() returned with Error at %1. [%2]	The FFRegGetKeySZ function returned an error.	Restart.	
23009	FFMWMStudyList	FFRegGetKeySZ() returned with Error at %1. [%2]	The FFRegGetKeySZ function failed. This error is attributable to an improper installation.	Perform a reinstall or restart.	
23009	FFStudyList, FFOutputList	FFRegGetKeySZ() returned with Error at %1.%n[%2]	The problem is attributable to an unprivileged user.	Use the normal startup procedure.	
23010	FFIIPListCustomize	FFRegGetKeyDWORD() returned with Error at %1.%n[%2]	The problem is attributable to an unprivileged user.	Use the normal startup procedure.	
23010	FFIIPListSearch	FFRegGetKeyDWORD() returned with Error at %1.%n[%2]	The problem is attributable to an unprivileged user.	Use the normal startup procedure.	
23010	FFMWMStudyList	FFRegGetKeyDWORD() returned with Error at %1. [%2]	The FFRegGetKeyDWORD function returned an error.	Restart.	
23010	FFStudyList, FFOutputList	FFRegGetKeyDWORD() returned with Error at %1.%n[%2]	The problem is attributable to an unprivileged user.	Use the normal startup procedure.	
2300A	FFMWMStudyList	FFRegGetKeyDWORD() returned with Error at %1. [%2]	The FFRegGetKeyDWORD function failed. This error is attributable to an improper IIP installation.	Perform a reinstallation or restart.	

Event	Event Source	Description	Causes	Remedies	Remarks
23011	FFIIPListCustomize	FFSysDBConnect() returned with Error at %1.%n[%2]	This error is attributable to a damaged Directory.ini file or missing SysConfig.mdb file.	Ensure that the Directory.ini file is normal, and then restart. Or, check the SysConfig.mdb file.	
23011	FFStudyList, FFOutputList	FFSysDBConnect() returned with Error at %1.%n[%2]	This error is attributable to a damaged Directory.ini file or missing SysConfig.mdb file.	Ensure that the Directory.ini file is normal, and then restart. Or, check the SysConfig.mdb file.	
23012	FFIIPListCustomize	FFSysDBClose() returned with Error at %1.%n[%2]	This error is attributable to a damaged Directory.ini file.	Check the SysConfig.mdb file.	
23012	FFStudyList, FFOutputList	FFSysDBClose() returned with Error at %1.%n[%2]	This error is attributable to a damaged Directory.ini file.	Check the SysConfig.mdb file.	
23013	FFIIPListCustomize	FFSysDBReadszValue() returned with Error at %1.%n[%2]	This error is attributable to a damaged Directory.ini file.	Check the SysConfig.mdb file.	
23013	FFStudyList, FFOutputList	FFSysDBReadszValue() returned with Error at %1.%n[%2]	This error is attributable to a damaged Directory.ini file.	Check the SysConfig.mdb file.	
23014	FFIIPListCustomize	FFSysDBReadnValue() returned with Error at %1.%n[%2]	This error is attributable to a damaged Directory.ini file.	Check the SysConfig.mdb file.	
23014	FFStudyList, FFOutputList	FFSysDBReadnValue() returned with Error at %1.%n[%2]	This error is attributable to a damaged Directory.ini file.	Check the SysConfig.mdb file.	
23015	FFStudyList, FFOutputList	Failed ImageDB Connection at %1.%n[%2]	The SQL Server Service Manager starts running or necessary files are not installed.	Ensure that the SQL Server is running.	
23016	FFStudyList, FFOutputList	Failed ImageDB Disconnection at %1.%n[%2]	The SQL Server Service Manager starts running or necessary files are not installed.	Ensure that the SQL Server is running.	
23017	FFStudyList, FFOutputList	Failed ImageDB Open Recordset at %1.%n[%2]	The SQL Server Service Manager starts running or necessary files are not installed.	Ensure that the SQL Server is running.	
23018	FFStudyList, FFOutputList	Failed ImageDB Update Recordset at %1.%n[%2]	The SQL Server Service Manager starts running or necessary files are not installed.	Ensure that the SQL Server is running.	
23019	FFStudyList, FFOutputList	Failed ImageDB Close Recordset at %1.%n[%2]	The SQL Server Service Manager starts running or necessary files are not installed.	Ensure that the SQL Server is running.	
23099	FFIIPListCustomize	An unknown error occurred.%n[%1]	An unknown error occurred.	Restart.	
23099	FFIIPListSearch	An unknown error occurred.%n[%1]	An unknown error occurred.	Restart.	
23099	FFMWMStudyList	An unknown error occurred. [%1]	An exception error occurred.	Restart.	
23099	FFMWMStudyList	An unknown error occurred. [%1]	An unknown error occurred. This error is attributable to system instability.	Restart.	

Event	Event Source	Description	Causes	Remedies	Remarks
23099	FFStudyList, FFOutputList	An unknown error occurred.%n[%1]	An unknown error occurred.	Restart.	
23108	FFIIPMAIN	It failed in the start of the sub-process. The initialization treatment can't be continued. /MainProcess:Main()	A subprocess was not successfully started up. It is conceivable that installation was not properly completed or that the system was unstable.	Restart. If the same symptom occurs after a restart, reinstall.	
23118	FFIIPMAIN	It failed in the completion of the sub-process. /MainProcess:ProcessEnd-Requirement()	A subprocess was not successfully ended. It is conceivable that the system was unstable.	Restart.	
23124	FFIIPMAIN	It failed in switching of the process. /MainProcess:xxxxx	Subprocess switching was not successfully performed. It is conceivable that the target subprocess was not running or that the system was unstable.	Restart.	
24001	FFCustomMsgBox	[24001] Selected study information will be fully deleted.	This dialog box opens for confirmation only.	No particular response is required.	List
24002	FFCustomMsgBox	[24002] No items displayed.	There were no items to be displayed in the list.	Select at least one display item.	List
24003	FFCustomMsgBox	[24003] The item width is too large.	The maximum display width was exceeded by the specified value.	Enter a smaller value.	List
24004	FFCustomMsgBox	[24004] Cancels the selected output request.	This dialog box opens for confirmation only.		List
24005	FFCustomMsgBox	[24005] The search target string "%S" was not found.	No data matched the entered search criteria.		List
29001	FFCustomMsgBox	[29001] Unexpected operational message received from the output process.	It is highly probable that the program was faulty.		List
29002	FFCustomMsgBox	[29002] Unexpected command message received from the output process.	It is highly probable that the program was faulty.		List
29107	FFIIPMAIN	It failed in the preparation of the pipe. The treatment can't be continued. /MainProcess:Main()	The pipe for inter-process communication was not successfully created. It is conceivable that the system was unstable.	Restart.	
29112	FFIIPMAIN	It failed in the indication of the routine mode transition. /MainProcess:m_Process-Control_OnRunProcCompl-ete()	The routine transition instruction message was not successfully issued. It is conceivable that the subprocess was not running or that the pipe was not created.	Restart. If the same symptom occurs after a restart, reinstall.	

Event	Event Source	Description	Causes	Remedies	Remarks
29114	FFIIPMAIN	An unusual message was received. This message is ignored. /MainProcess:m_ProcessComControl_OnRecvNotification()	The received message was unusual. It is conceivable that the message was not registered in the message information database or that the system was unstable.	Restart. If the same symptom occurs after a restart, reinstall.	
29115	FFIIPMAIN	An unusual send cause was received. This send cause is ignored. /MainProcess:m_ProcessComControl_OnRecvNotification()	A message was received from an unknown source. It is conceivable that the transmission source was not registered in the message information database or that a wrong transmission source was selected.	Restart. If the same symptom occurs after a restart, reinstall.	
29116	FFIIPMAIN	The form of the place of the transmission isn't right. /MainProcess:SendMessage()	An unknown transmission destination was specified for the received message. It is conceivable that the transmission destination was not registered in the message information database or that a wrong transmission destination was selected.	Restart. If the same symptom occurs after a restart, reinstall.	
29117	FFIIPMAIN	It failed in the message delivery. /MainProcess:SendMessage()	A message delivery was not successful. It is conceivable that the subprocess at the transmission destination was not running.	Restart. If the same symptom occurs after a restart, reinstall.	
29119	FFIIPMAIN	It failed in the process completion notice. /MainProcess:ProcessEndAnswerMessage()	An end notice was not successfully sent to the subprocess. It is conceivable that the subprocess was not running or that the system was unstable.	Restart.	
29122	FFIIPMAIN	It failed in the unusual occurrence notice. /MainProcess:ErrorNoticeMessage()	An error notice was not successfully sent to the subprocess. It is conceivable that the subprocess was not running or that the system was unstable.	Restart.	
29123	FFIIPMAIN	It failed in the pipe close. /MainProcess:EndMainProcess()	An inter-process communication pipe was not successfully closed. It is conceivable that the system was unstable.	Restart.	
29125	FFIIPMAIN	It failed in close of the message data base. /MainProcess:xxxxx	The message database was not successfully closed. It is conceivable that the system was unstable.	Restart.	
29126	FFIIPMAIN	It failed in reading of the registry information. /MainProcess:xxxxx	Data was not successfully acquired from the registry. It is conceivable that installation was not properly completed.	Reinstall.	
29127	FFIIPMAIN	It failed in writing of the registry information. /MainProcess:xxxxx	Data was not successfully written into the registry. It is conceivable that the system was unstable.	Restart.	
29130	FFCustomMsgBox	[29130] The system is now starting up.	This dialog box opens for confirmation only. It appears when the system returns from a user utility to an application.		

Event	Event Source	Description	Causes	Remedies	Remarks
30001	FFCustomMsgBox	[30001] Failed in obtaining the connection characters to the character database.	It is conceivable that the file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
30002	FFCustomMsgBox	[30002] Failed in connecting to the character database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
30003	FFCustomMsgBox	[30003] Failed in obtaining the connection characters to the system setting database.	It is conceivable that the file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
30004	FFCustomMsgBox	[30004] Failed in connecting to the system setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
30005	FFCustomMsgBox	[30005] Failed in obtaining the connection characters to the image database.	It is conceivable that the file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
30019	FFCustomMsgBox	[30019] Failed in obtaining the connectiion characters to the network setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
30045	FFCustomMsgBox	[30045] IP address on the Image Reader not obtained.	It is conceivable that the database file was damaged or improperly set.	Restart. If the same symptom recurs, perform a reinstallation.	
30057	FFCustomMsgBox	[30057] Failed in receiving the message.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
30085	FFCustomMsgBox	[30085] Failed in obtaining the connection characters to the Image Reader status information database.	It is conceivable that the file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
30105	FFCustomMsgBox	[30105] Failed in list initialization (waiting for study).	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
30106	FFCustomMsgBox	[30106] Failed in list initialization (waiting for QA).	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
30107	FFCustomMsgBox	[30107] Failed in list initialization (waiting for output).	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
30108	FFCustomMsgBox	[30108] Failed in list initialization (already output).	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
30109	FFCustomMsgBox	[30109] Failed in list initialization (all).	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
30110	FFCustomMsgBox	[30110] Failed in list initialization (today).	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
30121	FFCustomMsgBox	[30121]Failed in obtaining the connection characters to the Image Reader information database.	It is conceivable that the file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
30122	FFCustomMsgBox	[30122] Failed in accessing the Image Reader information database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
30125	FFCustomMsgBox	[30125] Failed in obtaining the system setting information (IP size series).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
30129	FFCustomMsgBox	[30129] Failed in obtaining the system setting information (Pantomography processing).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
30147	FFCustomMsgBox	[30147] Failed in obtaining the system setting information (Magnetic card type).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
30148	FFCustomMsgBox	[30148] Failed in obtaining the system setting information (Magnetic card type).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
30149	FFCustomMsgBox	[30149] Failed in obtaining the system setting information (Hospital card used).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
30150	FFCustomMsgBox	[30150] Failed in accessing the system setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
30151	FFCustomMsgBox	[30151] Failed in initialization processing.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
30152	FFCustomMsgBox	[30152] Failed in obtaining the pass information (image data folder).	It is conceivable that the file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
30155	FFCustomMsgBox	[30155] Failed in list initialization (waiting for study).	It is conceivable that the file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
30157	FFCustomMsgBox	[30157] Database access was unsuccessful.	The problem is attributable, for instance, to an inactive SQL service manager or uninitialized image database.	Check whether the SQL service manager is normally operating. If the symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	

Event	Event Source	Description	Causes	Remedies	Remarks
30200	FFCustomMsgBox	[30200] Failed in RIS activation.	There may be a problem with the RIS module or RIS setup.	Verify the settings and then restart. If the same symptom recurs, perform a reinstallation.	
30201	FFCustomMsgBox	[30201] A communication error with RIS occurred.	There may be a problem with the RIS module or RIS setup.	Verify the settings and then restart. If the same symptom recurs, perform a reinstallation	
31001	FFCustomMsgBox	[31001] Failed in obtaining the registry information (font name).	It is conceivable that the registry information was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31002	FFCustomMsgBox	[31002] Failed in obtaining the registry information (font size).	It is conceivable that the registry information was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31003	FFCustomMsgBox	[31003] Failed in obtaining the registry information (multi-byte language information).	It is conceivable that the registry information was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31004	FFCustomMsgBox	[31004] Failed in obtaining the used language in system setting.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31005	FFCustomMsgBox	[31005] Failed in obtaining the connection characters to the character database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31006	FFCustomMsgBox	[31006] Failed in connecting to the character database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31007	FFCustomMsgBox	[31007] Failed in obtaining the connection characters to the system setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31008	FFCustomMsgBox	[31008] Failed in connecting to the system setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31010	FFCustomMsgBox	[31010] Failed in connecting to the image database.	The problem is attributable, for instance, to an inactive SQL service manager or uninitialized image database.	Check whether the SQL service manager is normally operating. If the symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
31011	FFCustomMsgBox	[31011] Failed in obtaining the information from the image datab	The problem is attributable, for instance, to an inactive SQL service manager or uninitialized image database.	Check whether the SQL service manager is normally operating. If the symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
31012	FFCustomMsgBox	[31012] Failed in accessing the image database.	The problem is attributable, for instance, to an inactive SQL service manager or uninitialized image database.	Check whether the SQL service manager is normally operating. If the symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	

Event	Event Source	Description	Causes	Remedies	Remarks
31013	FFCustomMsgBox	[31013] Failed in obtaining the information from the image database.	The problem is attributable, for instance, to an inactive SQL service manager or uninitialized image database.	Check whether the SQL service manager is normally operating. If the symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
31014	FFCustomMsgBox	[31014] Failed in setting information to the image database.	The problem is attributable, for instance, to an inactive SQL service manager or uninitialized image database.	Check whether the SQL service manager is normally operating. If the symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
31015	FFCustomMsgBox	[31015] Failed in deleting the information from the image database.	The problem is attributable, for instance, to an inactive SQL service manager or uninitialized image database.	Check whether the SQL service manager is normally operating. If the symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
31016	FFCustomMsgBox	[31016] Failed in connecting to the flag database.	The problem is attributable, for instance, to an inactive SQL service manager or uninitialized image database.	Check whether the SQL service manager is normally operating. If the symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
31017	FFCustomMsgBox	[31017] Failed in accessing the flag database.	The problem is attributable, for instance, to an inactive SQL service manager or uninitialized image database.	Check whether the SQL service manager is normally operating. If the symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
31018	FFCustomMsgBox	[31018] Failed in setting information to the flag database.	The problem is attributable, for instance, to an inactive SQL service manager or uninitialized image database.	Check whether the SQL service manager is normally operating. If the symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
31019	FFCustomMsgBox	[31019] Failed in initialization process for menu setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31020	FFCustomMsgBox	[31020] Failed in obtaining the menu information from the menu setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31021	FFCustomMsgBox	[31021] Failed in obtaining the menu parameter information from the menu setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31022	FFCustomMsgBox	[31022] Failed in terminating the menu setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31023	FFCustomMsgBox	[31023] Failed in obtaining the connection characters to the network setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
31024	FFCustomMsgBox	[31024] Failed in connecting to the network setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31025	FFCustomMsgBox	[31025] Failed in obtaining the information from the network setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31026	FFCustomMsgBox	[31026] Failed in issuing the image information.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31027	FFCustomMsgBox	[31027] Failed in obtaining the image information.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31028	FFCustomMsgBox	[31028] Failed in setting the image information.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31029	FFCustomMsgBox	[31029] Failed in deleting the image information.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31030	FFCustomMsgBox	[31030] Failed in reading the image information file.	An image-related file was not successfully accessed. The problem is attributable to a disk.	Restart. If the same symptom frequently occurs, replace the disk.	
31031	FFCustomMsgBox	[31031] Failed in writing the image information file.	An image-related file was not successfully accessed. The problem is attributable to a disk.	Restart. If the same symptom frequently occurs, replace the disk.	
31032	FFCustomMsgBox	[31032] Failed in releasing the image information.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31033	FFCustomMsgBox	[31033] Failed in obtaining the caption information (ID#).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31034	FFCustomMsgBox	[31034] Failed in obtaining the caption information (study#).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31035	FFCustomMsgBox	[31035] Failed in obtaining the caption information (patient name).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31036	FFCustomMsgBox	[31036] Failed in obtaining the caption information (Kanji-patient name).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31037	FFCustomMsgBox	[31037] Failed in obtaining the caption information (sex).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31038	FFCustomMsgBox	[31038] Failed in obtaining the caption information (sex: M).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31039	FFCustomMsgBox	[31039] Failed in obtaining the caption information (sex: F).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
31040	FFCustomMsgBox	[31040] Failed in obtaining the caption information (sex: O).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31041	FFCustomMsgBox	[31041] Failed in obtaining the caption information (data of birth).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31042	FFCustomMsgBox	[31042] Failed in obtaining the system setting information (ID# input character limitation).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31043	FFCustomMsgBox	'[31043] Failed in obtaining the system setting information (Study # input character limitation).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31044	FFCustomMsgBox	[31044] Failed in obtaining the system setting information (ID # pudding format).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31045	FFCustomMsgBox	[31045] Failed in obtaining the system setting information (Study # pudding format).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31047	FFCustomMsgBox	[31047] Failed in obtaining the system setting information (date of birth format).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31051	FFCustomMsgBox	[31051] Invalid character is input in ID #.	A 2-byte character, @, or other unacceptable character was contained.	Make a proper entry.	
31052	FFCustomMsgBox	[31052] Invalid character is input in Study #.	A 2-byte character, @, or other unacceptable character was contained.	Make a proper entry.	
31053	FFCustomMsgBox	[31053] Invalid character is input in patient name.	A 2-byte character, @, or other unacceptable character was contained.	Make a proper entry.	
31054	FFCustomMsgBox	[31054] Invalid character is input in kanji-patient name.	A 1-byte character or other unacceptable character was contained.	Make a proper entry.	
31055	FFCustomMsgBox	[31055] Invalid character is input in sex.	A character other than "M", "F", and "O" was contained.	Make a proper entry.	
31056	FFCustomMsgBox	[31056] Invalid format for date of birth is input.	The entry did not agree with a preselected birth date format.	Make a proper entry.	
31057	FFCustomMsgBox	[31057] Failed in accessing the requesting department database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31058	FFCustomMsgBox	[31058] Failed in obtaining the caption information (requesting dep.).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
31059	FFCustomMsgBox	[31059] Failed in obtaining the item information for displaying in the requesting dep. Selection list.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31060	FFCustomMsgBox	[31060] Failed in obtaining the requesting department information.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31061	FFCustomMsgBox	[31061] Failed in obtaining the connection characters to the requesting department database.	It is conceivable that the file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31062	FFCustomMsgBox	[31062] Failed in accessing the technician information database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31063	FFCustomMsgBox	[31063] Failed in caption information (technician).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31064	FFCustomMsgBox	[31064] Failed in obtaining the item information for displaying in the technician selection list.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31065	FFCustomMsgBox	[31065] Failed in obtaining the technician information.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31066	FFCustomMsgBox	[31066] Failed in obtaining the connection characters to the technician database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31067	FFCustomMsgBox	[31067] Failed in obtaining the registry information (window size).	It is conceivable that the registry information was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31068	FFCustomMsgBox	[31068] No patient information is input.	Nothing was entered in the patient information input field.	Enter at least the patient's sex.	
31069	FFCustomMsgBox	[31069] Failed in obtaining the system setting information (succeeded from exposure menu reservation list).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31070	FFCustomMsgBox	[31070] Multiple studies cannot be executed.	An attempt was made to start an examination process with more than one examination item selected from an examination waiting list.	Start an examination process with one examination item selected.	
31071	FFCustomMsgBox	[31071] No list is selected.	An attempt was made to start execution with no examination item selected.	Select at least one examination item.	
31072	FFCustomMsgBox	[31072] Invalid character is input for film annotation.	An unacceptable character was contained.	Make a proper entry.	

Event	Event Source	Description	Causes	Remedies	Remarks
31074	FFCustomMsgBox	[31074] Failed in obtaining the information from the flag database.	The problem is attributable, for instance, to an inactive SQL service manager or uninitialized image database.	Check whether the SQL service manager is normally operating. If the symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
31076	FFCustomMsgBox	[31076] Failed in obtaining the button image (Clear button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31077	FFCustomMsgBox	[31077] Failed in obtaining the button image (OK button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31078	FFCustomMsgBox	[31078] Failed in obtaining the button image (Cancel button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31079	FFCustomMsgBox	[31079] Failed in obtaining the button image (increment button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31080	FFCustomMsgBox	[31080] Failed in obtaining the button image (decrement button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31081	FFCustomMsgBox	[31081] Failed in obtaining the button image (Next page button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31082	FFCustomMsgBox	[31082] Failed in obtaining the button image (previous page button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31097	FFCustomMsgBox	[31097] Failed in obtaining the information from the character database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31099	FFCustomMsgBox	[31099] An error of unknown cause occurred.	It is highly probable that the program was faulty.		
31101	FFCustomMsgBox	[31101] Failed in obtaining the pass information (log saving folder).	It is conceivable that the file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31103	FFCustomMsgBox	[31103] Failed in calling up the patient information.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31105	FFCustomMsgBox	[31105] Failed in terminating the image input subsystem.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31106	FFCustomMsgBox	[31106] Failed in terminating the image input subsystem.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
31107	FFCustomMsgBox	[31107] Failed in image inputting process in the image input sub-system.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31108	FFCustomMsgBox	[31108] Failed in image inputting process in the image input sub-system.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31109	FFCustomMsgBox	[31109] Failed in image inputting process in the image input sub-system.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31110	FFCustomMsgBox	[31110] Failed in calling up the exposure menu.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31111	FFCustomMsgBox	[31111] Failed in study terminating process.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31112	FFCustomMsgBox	[31112] Failed in image inputting process.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31113	FFCustomMsgBox	[31113] Failed in image inputting process.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31114	FFCustomMsgBox	[31114] Failed in specifying the urgent processing.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31116	FFCustomMsgBox	[31116] Communication line for monitoring the connection status with the Image Reader(%s) has broken.	It is highly probable that the RU or line was faulty.	Check the RU and line.	
31117	FFCustomMsgBox	[31117] No connection monitoring response from the Image Reader(%s).	It is highly probable that the RU or line was faulty.	Check the RU and line.	
31118	FFCustomMsgBox	[31118] Control line with the Image Reader(%s) has broken.	It is highly probable that the RU or line was faulty.	Check the RU and line.	
31119	FFCustomMsgBox	[31119] No command response from the Image Reader(%s).	It is highly probable that the RU or line was faulty.	Check the RU and line.	
31120	FFCustomMsgBox	[31120] Failed in Image Reader status control.	It is highly probable that the RU or line was faulty.	Check the RU and line.	
31121	FFCustomMsgBox	[31121] Command requested to the Image Reader has not been executed.	It is highly probable that the RU or line was faulty.	Check the RU and line.	
31122	FFCustomMsgBox	[31122] Failed in obtaining the information (status) from the Image Reader.	It is highly probable that the RU or line was faulty.	Check the RU and line.	

Event	Event Source	Description	Causes	Remedies	Remarks
31123	FFCustomMsgBox	[31123] Failed in obtaining the information (machine code) from the Image Reader.	It is highly probable that the RU or line was faulty.	Check the RU and line.	
31124	FFCustomMsgBox	[31124] Failed in obtaining the information (FRUP version) from the Image Reader.	It is highly probable that the RU or line was faulty.	Check the RU and line.	
31125	FFCustomMsgBox	[31125] Failed in re-connecting with the Image Reader.	It is highly probable that the RU or line was faulty.	Check the RU and line.	
31126	FFCustomMsgBox	[31126] Failed in breaking connection with the Image Reader.	It is highly probable that the RU or line was faulty.	Check the RU and line.	
31127	FFCustomMsgBox	[31127] Failed in obtaining the caption information (Study with QA completed).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31128	FFCustomMsgBox	[31128] Failed in obtaining the caption (only exposure competed).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31129	FFCustomMsgBox	[31129] Failed in obtaining the caption information (Study interrupt button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31130	FFCustomMsgBox	[31130] Failed in obtaining the caption information (Cancel button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31131	FFCustomMsgBox	[31131] Failed in obtaining the caption information (Study reception tab).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31132	FFCustomMsgBox	[31132] Failed in obtaining the caption information (waiting for study tab).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31133	FFCustomMsgBox	[31133] Failed in obtaining the caption information (waiting for QA tab).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31134	FFCustomMsgBox	[31134] Failed in obtaining the caption information (Waiting for output tab).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31135	FFCustomMsgBox	[31135] Failed in obtaining the caption information (Already output tab).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31136	FFCustomMsgBox	[31136] Failed in obtaining the caption information (All tab).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
31137	FFCustomMsgBox	[31137] Failed in obtaining the caption information (Today tab).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31138	FFCustomMsgBox	[31138] Failed in obtaining the button image (System button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31139	FFCustomMsgBox	[31139] Failed in obtaining the caption information (Study reservation button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31140	FFCustomMsgBox	[31140] Failed in obtaining the caption information (Study start button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31141	FFCustomMsgBox	[31141] Patient information is illegal.	An unacceptable character was contained.	Make a proper entry.	
31142	FFCustomMsgBox	[31142] Failed in obtaining the display group data.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31143	FFCustomMsgBox	[31143] Failed in obtaining the display group data.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31144	FFCustomMsgBox	[31144] Failed in obtaining the display group data.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31145	FFCustomMsgBox	[31145] Failed in obtaining the display group data.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31146	FFCustomMsgBox	[31146] Failed in obtaining the display group data.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31147	FFCustomMsgBox	[31147] Failed in obtaining the display group data.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31148	FFCustomMsgBox	[31148] Failed in obtaining the display group data.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31149	FFCustomMsgBox	[31149] Failed in obtaining the display group data.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31152	FFCustomMsgBox	[31152] Failed in obtaining the exposure menu information.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31153	FFCustomMsgBox	[31153] Failed in obtaining the button image (Urgent button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31154	FFCustomMsgBox	[31154] Failed in obtaining the button image (Study completed button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31155	FFCustomMsgBox	[31155] Failed in obtaining the button image (Update button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
31158	FFCustomMsgBox	[31158] Failed in obtaining the button image (New button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31159	FFCustomMsgBox	[31159] Failed in obtaining the button image (Repeat button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31160	FFCustomMsgBox	[31160] Failed in obtaining the button image (Re-shoot button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31161	FFCustomMsgBox	[31161] Failed in obtaining the button image (Add button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31162	FFCustomMsgBox	[31162] Failed in obtaining the button image (Delete button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31163	FFCustomMsgBox	[31163] Failed in obtaining the button image (Before scroll button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31164	FFCustomMsgBox	[31164] Failed in obtaining the button image (After Scroll button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31165	FFCustomMsgBox	[31165] Failed in obtaining the button image (Monitor mode button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31166	FFCustomMsgBox	[31166] Failed in obtaining the button image (QA button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31167	FFCustomMsgBox	[31167] Failed in obtaining the button image (Change button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31168	FFCustomMsgBox	[31168] Failed in obtaining the button image (Rotation/Inversion button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31169	FFCustomMsgBox	[31169] Failed in obtaining the button image (EDR mode button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31170	FFCustomMsgBox	[31170] Failed in obtaining the button image (Image format button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31171	FFCustomMsgBox	[31171] Failed in obtaining the button image (Change menu parameter button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31172	FFCustomMsgBox	[31172] Failed in obtaining the tool tip (New button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
31173	FFCustomMsgBox	[31173] Failed in obtaining the tool tip (Repeat button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31174	FFCustomMsgBox	[31174] Failed in obtaining the tool tip (Re-shoot button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31175	FFCustomMsgBox	[31175] Failed in obtaining the tool tip (Add button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31176	FFCustomMsgBox	[31176] Failed in obtaining the tool tip (Delete button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31177	FFCustomMsgBox	[31177] Failed in obtaining the tool tip (Before scroll button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31178	FFCustomMsgBox	[31178] Failed in obtaining the tool tip (After scroll button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31179	FFCustomMsgBox	[31179] Failed in obtaining the tool tip (Monitor mode button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31180	FFCustomMsgBox	[31180] Failed in obtaining the tool tip (QA button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31181	FFCustomMsgBox	[31181] Failed in obtaining the tool tip (Change button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31182	FFCustomMsgBox	[31182] Failed in obtaining the tool tip (Rotation/Inversion button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31183	FFCustomMsgBox	[31183] Failed in obtaining the tool tip (EDR mode button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31184	FFCustomMsgBox	[31184] Failed in obtaining the tool tip (Image format button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31185	FFCustomMsgBox	[31185] Failed in obtaining the tool tip (Change menu parameter button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31186	FFCustomMsgBox	[31186] Failed in obtaining the registry information (Set No.).	It is conceivable that the registry information was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31187	FFCustomMsgBox	[31187] Failed in setting the tool tip (Before scroll button).	It is conceivable that the registry information was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31188	FFCustomMsgBox	[31188] Failed in obtaining the system setting information (System ID).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
31189	FFCustomMsgBox	[31189] Failed in obtaining the system setting information (Auto-distribution instruction information).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31191	FFCustomMsgBox	[31191] Failed in obtaining the system setting information (Selector auto-switchover information).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31192	FFCustomMsgBox	[31192] Failed in obtaining the system setting information (Menu auto-sequence information).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31193	FFCustomMsgBox	[31193] Failed in obtaining the system setting information (Set No. minimum value information).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31194	FFCustomMsgBox	[31194] Failed in obtaining the system setting information (Set No. maximum value information).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31196	FFCustomMsgBox	[31196] Failed in obtaining the system setting information (Series information issuing method).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31197	FFCustomMsgBox	[31197] No matching work ID exists.	The contents of the image file did not agree with those of the image database.	Initialize the image database.	
31198	FFCustomMsgBox	[31198] Failed in distribution process.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31201	FFIIPInImgCtrl	Data error. [Detailed error information 31201 2 items]	Abnormal data was entered from the RU or the 5000 Series equipment.	Check the RU and the 5000 Series equipment. Perform an image input process again or restart.	
31201	FFIIPInImgCtrl	Image sizecode error.	Illegal image size code when a request was issued for image input.	Check the RU and the 5000 Series equipment. Perform an image input process again or restart.	
31201	FFIIPInImgCtrl	InImgReadProc method parameter error.	Illegal image input request method parameters.	Check the RU and the 5000 Series equipment. Perform an image input process again or restart.	
31202	FFCustomMsgBox	[31202] Failed in obtaining the system setting information (Patient information online serial port No.).	It is conceivable that the database file was damaged or deleted.	Check the RU and the 5000 Series equipment. Perform an image input process again or restart.	

Event	Event Source	Description	Causes	Remedies	Remarks
31202	FFIIPInImgCtrl	Initialize error. [Detailed error information 31202 14 items]	An abnormality occurred in the initialization process. The common probable causes are as follows: • Installation was not normally ended. • The parameter file was incorrect.	Restart the system. If the same symptom occurs after a restart, perform a reinstallation and initialize the image database.	
31202	FFIIPInImgCtrl	Create Instance error.	Failed in creating Control Instance.	Restart the system. If the same symptom occurs after a restart, perform a reinstallation and initialize the image database.	
31202	FFIIPInImgCtrl	Directory path get error.	Failed in acquiring each directory path name.	Restart the system. If the same symptom occurs after a restart, perform a reinstallation and initialize the image database.	
31202	FFIIPInImgCtrl	Thread make error.(Read)	Failed in creating image input thread.	Restart the system. If the same symptom occurs after a restart, perform a reinstallation and initialize the image database.	
31202	FFIIPInImgCtrl	Thread make error.(Disp)	Failed in creating image display thread.	Restart the system. If the same symptom occurs after a restart, perform a reinstallation and initialize the image database.	
31202	FFIIPInImgCtrl	EDR parameter file load error.	Failed in memory loading of the EDR processing parameter file.	Restart the system. If the same symptom occurs after a restart, perform a reinstallation and initialize the image database.	
31202	FFIIPInImgCtrl	Image parameter file load error.	Failed in memory loading of the image processing parameter file.	Restart the system. If the same symptom occurs after a restart, perform a reinstallation and initialize the image database.	
31202	FFIIPInImgCtrl	GetMessage(THREAD_ END) error.	Failed in acquiring the image input/display thread startup completion event.	Restart the system. If the same symptom occurs after a restart, perform a reinstallation and initialize the image database.	
31202	FFIIPInImgCtrl	DICOM SCP control run error.	Failed in DICOM SCP control startup.	Restart the system. If the same symptom occurs after a restart, perform a reinstallation and initialize the image database.	
31202	FFIIPInImgCtrl	GetMessage(DICOM_ RUN_COMPLETE) error.	Failed in acquiring the DICOM SCP control startup completion event.	Restart the system. If the same symptom occurs after a restart, perform a reinstallation and initialize the image database.	
31202	FFIIPInImgCtrl	PostThreadMessage(IMG_ END_REQ) error.	Failed in requesting for terminating image input thread.	Restart the system. If the same symptom occurs after a restart, perform a reinstallation and initialize the image database.	
31202	FFIIPInImgCtrl	PostThreadMessage(DISP-_END_REQ) error.	Failed in requesting for terminating image display thread.	Restart the system. If the same symptom occurs after a restart, perform a reinstallation and initialize the image database.	
31202	FFIIPInImgCtrl	GetMessage(THREAD_ COMPLETE) error.	Failed in acquiring the image input/display thread termination completion event.	Restart the system. If the same symptom occurs after a restart, perform a reinstallation and initialize the image database.	
31202	FFIIPInImgCtrl	GetMessage(DICOM_END _COMPLETE) error.	Failed in acquiring the DICOM SCP control termination completion event.	Restart the system. If the same symptom occurs after a restart, perform a reinstallation and initialize the image database.	

Event	Event Source	Description	Causes	Remedies	Remarks
31202	FFIIPInImgCtrl	DICOM SCP control (EndPrc method) error.	Failed in requesting for terminating DICOM SCP control.	Restart the system. If the same symptom occurs after a restart, perform a reinstallation and initialize the image database.	
31203	FFCustomMsgBox	[31203] Failed in obtaining the system setting information (Patient information online device name.).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31207	FFCustomMsgBox	[31207] Failed in setting the Image Reader machine code.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31208	FFCustomMsgBox	[31208] Failed in obtaining the button image (New button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31210	FFCustomMsgBox	[31210] Failed in obtaining the system setting information (Image rotation/ inversion selectable range).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31211	FFCustomMsgBox	[31211] Failed in obtaining the button image (frontal image button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31212	FFCustomMsgBox	[31212] Failed in obtaining the button image (Left-right invert button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31213	FFCustomMsgBox	[31213] Failed in obtaining the button image (Up-side-down invert button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31214	FFCustomMsgBox	[31214] Failed in obtaining the button image (180 degree rotation button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31215	FFCustomMsgBox	[31215] Failed in obtaining the button image (90 degree rotation button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31218	FFCustomMsgBox	[31218] Failed in obtaining the system setting information (Image format selectable range).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31219	FFCustomMsgBox	[31219] Failed in obtaining the button image (SINGLE button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31220	FFCustomMsgBox	[31220] Failed in obtaining the button image (TWIN button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
31225	FFCustomMsgBox	[31225] Failed in obtaining the connection characters to the film annotation database.	It is conceivable that the file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31226	FFCustomMsgBox	[31226] Failed in connecting characters to the film annotation database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31227	FFCustomMsgBox	[31227] Failed in obtaining the information from the film annotation database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31232	FFCustomMsgBox	[31232] Failed in obtaining the system setting information (upper limit of No. of output film).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31235	FFCustomMsgBox	[31235] Failed in obtaining the caption information (CS).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31236	FFCustomMsgBox	[31236] Failed in obtaining the caption information (SS).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31241	FFCustomMsgBox	[31241] Failed in making the thumbnail images in image input subsystem.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31242	FFCustomMsgBox	[31242] Failed in processing in image input subsystem.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31243	FFCustomMsgBox	[31243] Image format information is illegal.	A value in the image file conflicted with a system setting.	Since a standard setting will be used as a substitute to continue with the process, no particular response is required.	
31244	FFCustomMsgBox	[31244] Annotation information is illegal.	A value in the image file conflicted with a system setting.	Since a standard setting will be used as a substitute to continue with the process, no particular response is required.	
31245	FFCustomMsgBox	[31245] No. of output film information is illegal.	A value in the image file conflicted with a system setting.	Since a standard setting will be used as a substitute to continue with the process, no particular response is required.	
31246	FFCustomMsgBox	[31246] Distribution code information is illegal.	A value in the image file conflicted with a system setting.	Since a standard setting will be used as a substitute to continue with the process, no particular response is required.	
31247	FFCustomMsgBox	[31247] Image reading sensitivity is illegal.	A value in the image file conflicted with a system setting.	Since a standard setting will be used as a substitute to continue with the process, no particular response is required.	
31248	FFCustomMsgBox	[31248] Average output density is illegal.	A value in the image file conflicted with a system setting.	Since a standard setting will be used as a substitute to continue with the process, no particular response is required.	

Event	Event Source	Description	Causes	Remedies	Remarks
31249	FFCustomMsgBox	[31249] EDR mode is illegal.	A value in the image file conflicted with a system setting.	Since a standard setting will be used as a substitute to continue with the process, no particular response is required.	
31250	FFCustomMsgBox	[31250] Image filing mode is illegal.	A value in the image file conflicted with a system setting.	Since a standard setting will be used as a substitute to continue with the process, no particular response is required.	
31251	FFCustomMsgBox	[31251] Function mode is illegal.	A value in the image file conflicted with a system setting.	Since a standard setting will be used as a substitute to continue with the process, no particular response is required.	
31252	FFCustomMsgBox	[31252] IP logical size information is illegal.	A value in the image file conflicted with a system setting.	Since a standard setting will be used as a substitute to continue with the process, no particular response is required.	
31253	FFCustomMsgBox	[31253] Contrast shift is illegal.	A value in the image file conflicted with a system setting.	Since a standard setting will be used as a substitute to continue with the process, no particular response is required.	
31254	FFCustomMsgBox	[31254] Sensitivity shift information is illegal.	A value in the image file conflicted with a system setting.	Since a standard setting will be used as a substitute to continue with the process, no particular response is required.	
31255	FFCustomMsgBox	[31255] There is a discrepancy between system setting and image information.	A value in the image file conflicted with a system setting.	Since a standard setting will be used as a substitute to continue with the process, no particular response is required.	
31256	FFCustomMsgBox	[31256] There is a discrepancy between system setting and image information.	A value in the image file conflicted with a system setting.	Since a standard setting will be used as a substitute to continue with the process, no particular response is required.	
31257	FFCustomMsgBox	[31257] There is a discrepancy between system setting and image information.	A value in the image file conflicted with a system setting.	Since a standard setting will be used as a substitute to continue with the process, no particular response is required.	
31258	FFCustomMsgBox	[31258] There is a discrepancy between system setting and image information.	A value in the image file conflicted with a system setting.	Since a standard setting will be used as a substitute to continue with the process, no particular response is required.	
31259	FFCustomMsgBox	[31259] Failed in obtaining the image invert/rotate information.	It is conceivable that the image information was damaged.	Delete the associated examination. If the same symptom frequently recurs, perform a reinstallation.	
31260	FFCustomMsgBox	[31260] Failed in setting the image format information.	A value in the image file conflicted with a system setting.	Since a standard setting will be used as a substitute to continue with the process, no particular response is required.	
31261	FFCustomMsgBox	[31261]Failed in obtaining the image format information.	It is conceivable that the image information was damaged.	Delete the associated examination. If the same symptom frequently recurs, perform a reinstallation.	
31262	FFCustomMsgBox	[31262] Film annotation is illegal.	The registered film mark contained an unacceptable character.	Correct the film mark setup with a user utility.	

Event	Event Source	Description	Causes	Remedies	Remarks
31265	FFCustomMsgBox	[31265] Failed in obtaining the caption information (FIX).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31266	FFCustomMsgBox	[31266] Failed in obtaining the caption information (S value).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31267	FFCustomMsgBox	[31267] Failed in obtaining the caption information (SEMI-X).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31268	FFCustomMsgBox	[31269] Failed in obtaining the caption information (Density Ave	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31269	FFCustomMsgBox	[31268] Failed in obtaining the caption information (Density Average).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31270	FFCustomMsgBox	[31270] Input value is illegal.	The entered value contained an unacceptable character or was out of range or otherwise abnormal.	Make a proper entry.	
31272	FFCustomMsgBox	[31272] Failed in obtaining the system setting information (Function selectable range).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31273	FFCustomMsgBox	[31273] Failed in setting the function information.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31274	FFCustomMsgBox	[31274] Failed in setting the No. of output film.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31277	FFCustomMsgBox	[31277] Failed in setting the contrast shift.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31278	FFCustomMsgBox	[31278] Failed in setting the sensitivity shift.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31279	FFCustomMsgBox	[31279] Failed in setting the EDR mode information.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31280	FFCustomMsgBox	[31280] Failed in setting the FIX mode S value.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31281	FFCustomMsgBox	[31281] Failed in setting the SEMI-X mode average output density.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31282	FFCustomMsgBox	[31282] Failed in QA starting process.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31284	FFCustomMsgBox	[31284] Failed in obtaining the system setting information (Filing mode selectable range).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
31285	FFCustomMsgBox	[31285] Failed in setting the image filing information.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31288	FFCustomMsgBox	[31288] Failed in obtaining the distribution destination information.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31290	FFCustomMsgBox	[31290] Failed in obtaining IP logical size information.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31291	FFCustomMsgBox	[31291] Failed in obtaining the system setting information (Distribution code change).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31292	FFCustomMsgBox	[31292] Failed in obtaining the system setting information (Film annotation change).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31293	FFCustomMsgBox	[31293] Failed in obtaining the system setting information (Function change).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31294	FFCustomMsgBox	[31294] Failed in terminating process.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31295	FFCustomMsgBox	[31295] Failed in terminating process.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31296	FFCustomMsgBox	[31296] Failed in updating the list display.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31303	FFCustomMsgBox	[31303] No list (Waiting for study) is selected.	It is highly probable that the program was faulty.		
31304	FFCustomMsgBox	[31304] No list (Waiting for QA) is selected.	It is highly probable that the program was faulty.		
31305	FFCustomMsgBox	[31305]No list (Waiting for output) is selected.	It is highly probable that the program was faulty.		
31306	FFCustomMsgBox	[31306] No list (Already output) is selected.	It is highly probable that the program was faulty.		
31307	FFCustomMsgBox	[31307] No list (All) is selected.	It is highly probable that the program was faulty.		
31308	FFCustomMsgBox	[31308] No list (Today) is selected.	It is highly probable that the program was faulty.		
31309	FFCustomMsgBox	[31309] Failed in updating the list (Waiting for study) display.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31310	FFCustomMsgBox	[31310] Failed in updating the list (Waiting for QA) display.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
31311	FFCustomMsgBox	[31311] Failed in updating the list (Waiting for output) display.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31312	FFCustomMsgBox	[31312] Failed in updating the list (Already output) display.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31313	FFCustomMsgBox	[31313] Failed in updating the list (All) display.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31314	FFCustomMsgBox	[31314] Failed in updating the list (Today) display.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31315	FFCustomMsgBox	[31315] No. of selected study is illegal. Study cannot be started.	It is highly probable that the program was faulty.		
31316	FFCustomMsgBox	[31316] Failed in study starting process.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31317	FFCustomMsgBox	[31317] No. of selected studies is illegal. QA cannot be started.	It is highly probable that the program was faulty.		
31318	FFCustomMsgBox	[31318] Failed in QA starting process.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31319	FFCustomMsgBox	[31319] Failed in QA starting process.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31320	FFCustomMsgBox	[31320] Failed in obtaining the system setting information (Operational mode after studying).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31321	FFCustomMsgBox	[31321] Failed in obtaining the button image (Utility button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31322	FFCustomMsgBox	[31322] Failed in obtaining the patient information.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31323	FFCustomMsgBox	[31323] Date of birth could not be converted to the displaying format.	Illegal birth date information was set.	Delete the associated examination. If the same symptom recurs after deletion, perform a reinstallation.	
31324	FFCustomMsgBox	[31324] Failed in obtaining the caption information (Stop alarm button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31329	FFCustomMsgBox	[31329] Message from the Image Reader could not be displayed.	The RU software version conflicted with the message file version on the IIP side or the RU message file was damaged or otherwise abnormal.	Confirm software version and setups on the RU side.	

Event	Event Source	Description	Causes	Remedies	Remarks
31330	FFCustomMsgBox	[31330] Failed in the obtaining the caption information (System Terminating button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31331	FFCustomMsgBox	[31331] Failed in obtaining the caption information (User Utility button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31332	FFCustomMsgBox	[31332] Failed in obtaining the caption information (Study list setting button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31333	FFCustomMsgBox	[31333] Failed in obtaining the caption information (Version displaying button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31334	FFCustomMsgBox	[31334] Failed in obtaining the caption information (Cancel button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31335	FFCustomMsgBox	[31335] Failed in obtaining the button image (Clear button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31336	FFCustomMsgBox	[31336] Failed in obtaining the tool tip information (Clear button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31337	FFCustomMsgBox	[31337] Failed in displaying the thumbnail images.	The thumbnail image file was damaged, deleted, or otherwise abnormal.	There are no processing problems except for the inability to display thumbnail images. If the same symptom frequently occurs, initialize the image database.	
31339	FFCustomMsgBox	[31339] Failed in executing the dust removing process starting method of the Image Reader.	The RU is not ready for performing the method.	Check the RU.	
31340	FFCustomMsgBox	[31340] Failed in obtaining the caption information (Cancel button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31341	FFCustomMsgBox	[31341] Failed in obtaining the caption information (Cancel button).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31343	FFCustomMsgBox	[31343] Failed in inputting images.	It is conceivable that there was a problem with the RU or line.	Check the RU and line.	
31344	FFCustomMsgBox	[31344] Image size could not be detected.	It is conceivable that there was a problem with the RU.	Check the RU.	
31346	FFCustomMsgBox	[31346] Failed in obtaining the Image Reader error information.	The RU software version conflicted with the message file version on the IIP side or the RU message file was damaged or otherwise abnormal.	Check the software version and setup on the RU side.	

Event	Event Source	Description	Causes	Remedies	Remarks
31347	FFCustomMsgBox	[31347] Failed in obtaining the Image Reader status information.	The RU software version conflicted with the message file version on the IIP side or the RU message file was damaged or otherwise abnormal.	Check the software version and setup on the RU side.	
31348	FFCustomMsgBox	[31348] Failed in thumbnail image creation process.	The thumbnail image file was damaged, deleted, or otherwise abnormal.	There are no processing problems except for the inability to display thumbnail images. If the same symptom frequently occurs, initialize the image database.	
31349	FFCustomMsgBox	[31349] Failed in displaying the list (Waiting for study).	It is conceivable that the system was unstable or that the program was faulty.	If the same symptom recurs after a restart, perform a reinstallation.	
31350	FFCustomMsgBox	[31350] Failed in displaying the list (Waiting for QA).	It is conceivable that the system was unstable or that the program was faulty.	If the same symptom recurs after a restart, perform a reinstallation.	
31351	FFCustomMsgBox	[31351] Failed in displaying the list (Waiting for output).	It is conceivable that the system was unstable or that the program was faulty.	If the same symptom recurs after a restart, perform a reinstallation.	
31352	FFCustomMsgBox	[31352] Failed in displaying the list (Already output).	It is conceivable that the system was unstable or that the program was faulty.	If the same symptom recurs after a restart, perform a reinstallation.	
31353	FFCustomMsgBox	[31353] Failed in displaying the list (All).	It is conceivable that the system was unstable or that the program was faulty.	If the same symptom recurs after a restart, perform a reinstallation.	
31354	FFCustomMsgBox	[31354] Failed in displaying the list (Today).	It is conceivable that the system was unstable or that the program was faulty.	If the same symptom recurs after a restart, perform a reinstallation.	
31355	FFCustomMsgBox	[31355] Failed in customizing the list display.	It is conceivable that the system was unstable or that the program was faulty.	If the same symptom recurs after a restart, perform a reinstallation.	
31356	FFCustomMsgBox	[31356] Failed in obtaining the system setting information (Default menu code).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31358	FFCustomMsgBox	[31358] Failed in obtaining the tool tip text.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31359	FFCustomMsgBox	[31359] Failed in obtaining the caption information (Title bar).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31360	FFCustomMsgBox	[31360] Failed in obtaining the caption information (Option label).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31361	FFCustomMsgBox	[31361] Failed in obtaining the version information.	It is conceivable that the file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31362	FFCustomMsgBox	[31362] Option list could not be obtained.	It is conceivable that the registry information was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31363	FFCustomMsgBox	[31363] Failed in obtaining the registry information (Next multiple frame set No.).	It is conceivable that the registry information was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
31364	FFCustomMsgBox	[31364] Failed in setting the registry information (Next multi-frame set No.).	It is conceivable that the registry information was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31365	FFCustomMsgBox	[31365] Failed in obtaining the system setting information (Series issuing type).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31366	FFCustomMsgBox	[31366] Failed in obtaining the multi-frame UID information.	The system was unstable.	Restart. If the same symptom recurs, perform a reinstallation.	
31367	FFCustomMsgBox	[31367] Failed in obtaining the cassette insertion enabled image.	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31368	FFCustomMsgBox	[31368] Failed in obtaining the cassette insertion disabled image.	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31369	FFCustomMsgBox	[31369] Failed in obtaining the image icon (Mis-exposure).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31370	FFCustomMsgBox	[31370] Failed in obtaining the button image (Image style button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31371	FFCustomMsgBox	[31371] Failed in obtaining the button image (EDR button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31372	FFCustomMsgBox	[31372] Failed in obtaining the button image (Function button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31373	FFCustomMsgBox	[31373] Failed in obtaining the button image (No. of output film button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31374	FFCustomMsgBox	[31374] Failed in obtaining the button image (IP size button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31375	FFCustomMsgBox	[31375] Failed in obtaining the button image (Film format button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31376	FFCustomMsgBox	[31376] Failed in obtaining the button image (Filing button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31377	FFCustomMsgBox	[31377] Failed in obtaining the button image (Film annotation button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
31378	FFCustomMsgBox	[31378] Failed in obtaining the button image (Distribution code button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31379	FFCustomMsgBox	[31379] Failed in obtaining the button image (CS/SS button).	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31380	FFCustomMsgBox	[31380] Failed in obtaining the system setting information (Serial port No. for connecting to XCON).	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31381	FFCustomMsgBox	[31381] Failed in obtaining the XCON device name.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31382	FFCustomMsgBox	[31382] Image data line to the Image Reader(%s) has broken.	The line was abnormal.	Check the line.	
31386	FFCustomMsgBox	[31386] Failed in obtaining the caption information.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31387	FFCustomMsgBox	[31387] Failed in reading the bit-map file.	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31388	FFCustomMsgBox	[31388] Failed in obtaining the font information.	It is conceivable that the registry information was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31390	FFCustomMsgBox	[31390] The information about a requesting department was illegal.	The entered information or its format was in error.		
31391	FFCustomMsgBox	[31391] The information about a paramedic was illegal.	The entered information or its format was in error.		
31392	FFCustomMsgBox	[31392] A patient information search was unsuccessful.	Nothing matched the entered patient information	Check the patient information.	
31394	FFCustomMsgBox	[31394] The line connected to the RIS was faulty.	This error is attributable to an RIS problem or RIS setup problem	Check the RIS status and RIS setup.	
31400	FFCustomMsgBox	[31400]The selected menu did not exist.	This error is attributable to an RIS problem or RIS setup problem.	Check the RIS status and RIS setup.	
31401	FFCustomMsgBox	[31401] Path information (image data folder) acquisition was not successful.	It is conceivable that the file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31402	FFCustomMsgBox	[31402] Parameter icon image acquisition was not successful.	It is conceivable that the bitmap file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31403	FFCustomMsgBox	[31403] Caption information acquisition was not successful.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
31404	FFCustomMsgBox	[31404] Failed in communicating with other connected device.	This error is attributable to a problem with the connected equipment or connection setup.	Check the connected equipment, connection setup, and others.	
31405	FFCustomMsgBox	[31405] Failed in evacuating the IP.	The connected equipment may be faulty.	Check the connected equipment.	
31406	FFCustomMsgBox	[31406] Failed in setting the IP.	The connected equipment may be faulty.	Check the connected equipment.	
31407	FFCustomMsgBox	[31407] Failed in setting the exposure size.	The connected equipment may be faulty.	Check the connected equipment.	
31408	FFCustomMsgBox	[31408] Failed in setting the reference position for exposure.	The connected equipment may be faulty.	Check the connected equipment.	
31409	FFCustomMsgBox	[31409] No response comes from other connected device.	The connected equipment may be faulty.	Check the connected equipment.	
31410	FFCustomMsgBox	[31410] There is no answer from the device that ID information is shared.	The connected equipment may be faulty.	Check the connected equipment.	
31411	FFCustomMsgBox	[31411] A Study can't register because the exposure menu registerd in IDT isn't registerd in IIP.	This error is attributable to an improperly registered menu.	Check the menu registration information.	
31412	FFCustomMsgBox	[31412] An image data line with the reader is cut off.	The connected equipment may be faulty	Check the connected equipment.	
31413	FFCustomMsgBox	[31413] There are some inconsistency in the IIP-RU connection setting of the system configuration.	The connection setup may be improper.	Check the connection setup.	
31414	FFCustomMsgBox	[31414] Failed in obtaining the caption information (RIS tab).	The database file may be damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
31415	FFCustomMsgBox	[31415] A communication error with RIS occurred.	The connected equipment may be faulty.	Check the connected equipment.	
31416	FFCustomMsgBox	[31416] Some exposure menus couldn't be registerd.	This error is attributable to an improperly set menu parameter or other setup failure.	Check the settings.	
31417	FFCustomMsgBox	[31417] An exposure menu couldn't be registerd.	This error is attributable to an improperly set menu parameter or other setup failure.	Check the settings.	
31418	FFCustomMsgBox	[31418] Failed in the reference of the reader device	The connection setup may be faulty.	Check the connection setup.	
32001	FFCustomMsgBox	[32001] The card type is not acceptable.	The employed card type did not agree with the card type defined by the system setup data.	Check both the system settings and employed card type.	

Event	Event Source	Description	Causes	Remedies	Remarks
32001	FFIIPInImgCtrl	Initialize warning. [Detailed error information 32001 35 items]	A warning-level error occurred in an image database initialization process. The common probable causes are as follows: • An abnormality occurred when the image database was accessed. • An abnormality occurred when an information file was accessed. • An abnormality occurred when an image file was created or referenced for image file recovery. • The contents of the image database or information file were illegal. • An unrecoverable image file was encountered.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	DICOM SCP was Not found in NetConfigDB.	DICOM SCP is not defined in the NetConfigDB.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	DICOM SCP control status error.	Failed in starting the DICOM SCP control.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	DDO file load error.	Failed in reading the information file (DDO).	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	DDO file save error.	Failed in storing the information file. (DDO)	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	Size code was not found in DDO.	There is no size code in the information file (DDO).	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	RecordID was not found in DDO.	There is no record ID in the information file (DDO).	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	HQ file was not found in DDO.	There is no HQ image file in the information file (DDO).	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	

Event	Event Source	Description	Causes	Remedies	Remarks
32001	FFIIPInImgCtrl	Std file was not found in DDO.	There is no standard image file name in the information file (DDO).	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	Image size was not found in DDO.	There is no image size in the information file (DDO).	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	Image sizecode error.	Illegal image size cede.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	Std file make error.	Standard image generation processing error.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	Thumb file make error.	Thumbnail image generation processing error.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	FoeEDR file make error.	Reduced image generation processing error.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	Moire control error.	Standard image generation processing error.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	Thumb control error.	Thumbnail image generation processing error.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	ForEDR control error.	Reduced image generation processing error.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	

Event	Event Source	Description	Causes	Remedies	Remarks
32001	FFIIPInImgCtrl	EDR process error.	EDR processing error.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	Jpeg control error.	JPEG processing error.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	InfoFileURL was not found in ImageDB.	The InfoFileURL field cannot be found in the image DB.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	InfoFile was 'EMPTY' in ImageDB.	The InfoFileURL field in the image DB is "EMPTY".	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	StdImageFileURL was not found in ImageDB.	The StdImageFileURL field cannot be found in the image DB.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	ThmImageFileURL was not found in ImageDB.	The ThmImageFileURL field cannot be found in the image DB.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	MaskImageFileURL was not found in ImageDB.	The MaskImageFileURL field cannot be found in the image DB.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	EDRBackupFileURL was not found in ImageDB.	The EDRBackupFileURL field cannot be found in the image DB.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	StdImageFileURL set error in ImageDB.	Failed in registering the standard image file name in the image DB.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	

Event	Event Source	Description	Causes	Remedies	Remarks
32001	FFIIPInImgCtrl	ThmImageFileURL set error in ImageDB.	Failed in registering the thumbnail image file name in the image DB.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	MaskImageFileURL set error in ImageDB.	Failed in registering the reduced image file name in the image DB.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	ImageDB access(get_Fields) error.	Image DB access error.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	ImageDB access error.	Image DB access error.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	UpdateCloseRec error.	Image DB access error.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	Create file error.	Failed in creating a file.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	File open error.	Failed in opening a file.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	File close error.	Failed in closing a file.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32001	FFIIPInImgCtrl	File read error.	Failed in reading a file.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	

Event	Event Source	Description	Causes	Remedies	Remarks
32001	FFIIPInImgCtrl	File write error.	Failed in writing a file.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
32002	FFCustomMsgBox	[32002] Failed in reading the card.	A simple read error occurred or the problem might have been caused by damaged contents of a card or a broken magnetic card reader.	Read the card again. If the same symptom recurs, check the contents of the card and the magnetic card reader.	
32002	FFIIPInImgCtrl	Data not found.(warning) [Detailed error information 32002 1 item]	A warning-level error was found in information file data.	Nothing in particular. (The data found abnormal was replaced by the default value to continue with the process.)	
32002	FFIIPInImgCtrl	Data not found.	There is no data in the information file (DDO).	Nothing in particular. (The data found abnormal was replaced by the default value to continue with the process.)	
32003	FFIIPInImgCtrl	Status warning. [Detailed error information 32003 1 item]	A process request was issued while an initialization or termination process was being performed.	Nothing in particular. (The process request was rejected.)	
32003	FFIIPInImgCtrl	Status error.(IDInfoChange method)	Image display request method execution timing error after ID information was changed.	Nothing in particular. (Processing requested was rejected.)	
32012	FFCustomMsgBox	[32012] Illegal information has been detected in the patient information.	The problem was caused, for instance, by an invalid character contained in the contents of the card.	Check the contents of the card.	
32015	FFCustomMsgBox	[32015] A barcode was not successfully read.	The problem was caused, for instance, by an incompatible barcode format.	Check the contents of the barcode.	
34001	FFCustomMsgBox	[34001] The same patient information has been input.	The card read was about the patient whose examination was being conducted.	This dialog box merely opens to attract the user's attention. No particular response is required.	
34002	FFCustomMsgBox	[34002] A certain examination finished before the completion of an image read.	The last examination was ended abruptly during an image read process (due, for instance, to a power failure).		
39001	FFIIPInImgCtrl	Memory allocate error. [E1027]	Sufficient memory was not available to the system.	Restart.	
39001	FFIIPInImgCtrl	Socket recv buffer.	Failed in acquiring the socket reception buffer.	Restart.	
39001	FFIIPInImgCtrl	Pantomo work buffer.	Failed in acquiring the pantomography reading buffer.	Restart.	
39001	FFIIPInImgCtrl	ImgReadProcess memory allocate error.	Failed in memory acquisition.	Restart.	
39001	FFIIPInImgCtrl	Memory allocate error.	Failed in memory acquisition.	Restart.	
39001	FFIIPInImgCtrl	Memory Exception error.	An exception generated when acquiring memory.	Restart.	

Event	Event Source	Description	Causes	Remedies	Remarks
39001	FFIIPInImgCtrl	Disp Qeue param.	Failed in acquiring an image display queue.	Restart.	
39001	FFIIPInImgCtrl	Read qeue param.	Failed in acquiring an image reading queue.	Restart.	
39001	FFIIPInImgCtrl	ReadThread main param.	Failed in acquiring image input thread parameters.	Restart.	
39001	FFIIPInImgCtrl	JpegThread main param.	Failed in acquiring JPEG compression thread parameters.	Restart.	
39001	FFIIPInImgCtrl	Image Data area.	Failed in acquiring image reading date area.	Restart.	
39001	FFIIPInImgCtrl	Image Time area.	Failed in acquiring image reading time area.	Restart.	
39001	FFIIPInImgCtrl	DICOMDataObj set data area.	Failed in acquiring information file (DDO) setup memory area.	Restart.	
39001	FFIIPInImgCtrl	EDR data.	Failed in acquiring EDR image separation processing area.	Restart.	
39001	FFIIPInImgCtrl	EDR out data.	Failed in acquiring EDR image separation processing area.	Restart.	
39001	FFIIPInImgCtrl	Disp image data.	Image display area.	Restart.	
39001	FFIIPInImgCtrl	SkGp Image area.	Failed in acquiring image area after normalization processing.	Restart.	
39001	FFIIPInImgCtrl	GammaTable(LUT) area.	Failed in acquiring the g processing table.	Restart.	
39001	FFIIPInImgCtrl	Beta param area.	Failed in acquiring the b processing parameter area.	Restart.	
39001	FFIIPInImgCtrl	DRC param area.	Failed in acquiring the DRC processing parameter area.	Restart.	
39001	FFIIPInImgCtrl	MFP-DRC param area.	Failed in acquiring the MFP-DRC processing parameter area.	Restart.	
39001	FFIIPInImgCtrl	MFP-USM param area.	Failed in acquiring the MFP-USM processing parameter area.	Restart.	
39001	FFRUInpImgMgr	Initialization failed. %n[%1]	The initialization process was not successfully performed.	Restart.	
39002	FFIIPInImgCtrl	Message post/get error. [Detailed error information 39002 5 items]	The system was unstable.	Restart.	
39002	FFIIPInImgCtrl	PostThreadMessage (%s) error.	Failed in (%s) message transmission while in image input processing.	Restart.	
39002	FFIIPInImgCtrl	PostMessage error.	Failed in message transmission while in image input processing.	Restart.	
39002	FFIIPInImgCtrl	GetMessage (%s) error.	Failed in (%s) message reception while in image input processing.	Restart.	

Event	Event Source	Description	Causes	Remedies	Remarks
39002	FFIIPInImgCtrl	GetMessage error.	Failed in message reception while in image input processing.	Restart.	
39002	FFIIPInImgCtrl	Post/Get Message error.	Failed in message transmission/reception while in image input processing.	Restart.	
39002	FFRUInpImgMgr	Finalize Failed. %n[%1]	The finalization process was not successfully performed.	Restart.	
39003	FFIIPInImgCtrl	IIPInImg control error. [Detailed error information 39003 19 items]	An abnormality was found in the IIP input image process.	Restart.	
39003	FFIIPInImgCtrl	Get DispatchID error. Property = %s	Failed in setting DICOM SCP control properties (%s).	Restart.	
39003	FFIIPInImgCtrl	Invoke error. Property = %s	Failed in setting DICOM SCP control properties (%s).	Restart.	
39003	FFIIPInImgCtrl	Get DispatchID error. Property = %s	Failed in viewing DICOM SCP control properties (%s).	Restart.	
39003	FFIIPInImgCtrl	Invoke error. Property = %s	Failed in viewing DICOM SCP control properties (%s).	Restart.	
39003	FFIIPInImgCtrl	Get DispatchID error. Method = %s	Failed in performing the DICOM SCP control method (%s).	Restart.	
39003	FFIIPInImgCtrl	Invoke error. Method = %s	Failed in performing the DICOM SCP control method (%s).	Restart.	
39003	FFIIPInImgCtrl	DispQeue was full.	Failed in registering an image display queue.	Restart.	
39003	FFIIPInImgCtrl	DispQeue status error.	Failed in registering an image display queue (illegal status).	Restart.	
39003	FFIIPInImgCtrl	Thumbnail image disp error.	Failed in displaying a pre-reading image.	Restart.	
39003	FFIIPInImgCtrl	EDR/ID image disp error.	Failed in displaying a processed image.	Restart.	
39003	FFIIPInImgCtrl	Data not found.	The relevant menu code cannot be found in the image processing parameters.	Restart.	
39003	FFIIPInImgCtrl	Image File Path get error.	Failed in acquiring the directory path name of the image file.	Restart.	
39003	FFIIPInImgCtrl	File name set error.(%s)	Failed in setting the (%s) file name in the information file (DDO).	Restart.	
39003	FFIIPInImgCtrl	JPEG Thread error.	Failed in creating a JPEG compression thread.	Restart.	
39003	FFIIPInImgCtrl	Image process error(%s) .	Failed in starting the image processing control.	Restart.	
39003	FFIIPInImgCtrl	Input image control error.	Internal discrepancy found during input image processing.	Restart.	
39003	FFIIPInImgCtrl	File type error.	Internal discrepancy found during input image processing.	Restart.	

Event	Event Source	Description	Causes	Remedies	Remarks
39003	FFIIPInImgCtrl	Img type error.	Internal discrepancy found during input image processing.	Restart.	
39003	FFIIPInImgCtrl	Exception error.	An exception found during input image processing.	Restart.	
39003	FFRUInpImgMgr	Invalid Status. %n[%1]	The status was invalid.	Restart.	
39004	FFIIPInImgCtrl	CR-Image control error. [Detailed error information 39004 13 items]	An abnormal end was found in an image file creation process or image display process. The problem is attributable to a disk.	Restart.	
39004	FFIIPInImgCtrl	Disp control(%s Method) error.	Image display processing error (method name: %s).	Restart.	
39004	FFIIPInImgCtrl	EDR control (%s) error.	Error occurred during EDR processing (processing ID:%s).	Restart.	
39004	FFIIPInImgCtrl	EDR process error.	Error occurred during EDR processing.	Restart.	
39004	FFIIPInImgCtrl	ForEDR control error.	Error occurred during reduced image creation processing.	Restart.	
39004	FFIIPInImgCtrl	HQ file create error.(%s)	Failed in creating an HQ image file (file ID).	Restart.	
39004	FFIIPInImgCtrl	Image Jpeg-compress error.	Error occurred during JPEG compression processing.	Restart.	
39004	FFIIPInImgCtrl	Image process error.(%s).	Failed in starting the image processing control. (Internal processing name: %s)	Restart.	
39004	FFIIPInImgCtrl	Image sizecode error.	Illegal image size code.	Restart.	
39004	FFIIPInImgCtrl	ImageDB/DDO access error.(%s)	Error occurred in access to the image DB or information file (DDO).	Restart.	
39004	FFIIPInImgCtrl	Jpeg control (%s) error.	Error occurred during JPEG processing (processing ID: %s).	Restart.	
39004	FFIIPInImgCtrl	Miore control error.	Error occurred during standard image creating processing.	Restart.	
39004	FFIIPInImgCtrl	SkGp control (%s) error.	Error occurred during normalization processing. (Processing ID:%s)	Restart.	
39004	FFIIPInImgCtrl	Thumbnail control error.	Error occurred during thumbnail image creating processing.	Restart.	
39004	FFRUInpImgMgr	Thread Invoke failed. %n[%1]	Thread creation was not successfully completed.	Restart.	
39005	FFIIPInImgCtrl	Pipe error. [Detailed error information 39005 1 item]	The system remains unstable.	Restart.	
39005	FFIIPInImgCtrl	Pipe create error.(%s)	Failed in creating a pipe. (Pipe type: %s)	Restart.	
39005	FFRUInpImgMgr	Socket Access Failed. %n[%1]	A socket communication error occurred.	Check the network status and then restart the system.	

Event	Event Source	Description	Causes	Remedies	Remarks
39006	FFIIPInImgCtrl	File error. [Detailed error information 39006 7 items]	The system remains unstable.	Restart.	
39006	FFIIPInImgCtrl	File error.	Failed in accessing the file.	Restart.	
39006	FFIIPInImgCtrl	File error(%s).	Failed in accessing the file. (Processing type.)	Restart.	
39006	FFIIPInImgCtrl	Create file error.	Failed in file creation processing.	Restart.	
39006	FFIIPInImgCtrl	CreateFileMapping error.	Failed in file mapping processing.	Restart.	
39006	FFIIPInImgCtrl	MapViewOfFile error.	Failed in file mapping processing.	Restart.	
39006	FFIIPInImgCtrl	EDRImageFile mapping error.	Failed in mapping the reduced image file before EDR processing.	Restart.	
39006	FFIIPInImgCtrl	File mapping error.	Failed in file mapping processing.	Restart.	
39006	FFRUInpImgMgr	System Function Call Failed. %n[%1]	An error was returned by a system call (Win32 API, etc.).	Restart.	
39007	FFIIPInImgCtrl	Data not found.(error) [Detailed error information 39007 3 items]	The data in the image database or information file was abnormal.	Make an exposure again. If the error recurs, initialize the image database (the entire image data is then deleted).	
39007	FFIIPInImgCtrl	Data not found. / DDO Data not found.	The relevant VR cannot be found in the information file (DDO).	Make an exposure again. If the error recurs, initialize the image database (the entire image data is then deleted).	
39007	FFIIPInImgCtrl	Data not found.(%s) / DDO Data not found.(%s)	The relevant data cannot be found in the information file (DDO).	Make an exposure again. If the error recurs, initialize the image database (the entire image data is then deleted).	
39007	FFIIPInImgCtrl	%s GetVR error.	Failed in acquiring VR shown by %s.	Make an exposure again. If the error recurs, initialize the image database (the entire image data is then deleted).	
39007	FFRUInpImgMgr	Invalid Receive Data. %n[%1]	Invalid data was received from the RU.	Check the connection to the RU.	
39008	FFIIPInImgCtrl	DB access error. [Detailed error information 39008 19 items]	An abnormality occurred when a database was accessed.	Restart. If the same symptom frequently occurs, perform a reinstallation.	
39008	FFIIPInImgCtrl	ImageDB key get error.	Image DB key name acquisition error.	Restart. If the same symptom recurs, perform a reinstallation.	
39008	FFIIPInImgCtrl	ImageDB connect error.	Image DB connecetion error.	Restart. If the same symptom recurs, perform a reinstallation.	
39008	FFIIPInImgCtrl	ImageDB OpenRecordset error.	Image DB open error.	Restart. If the same symptom recurs, perform a reinstallation.	
39008	FFIIPInImgCtrl	ImageDB get_Fields error.	Image DB viewing error.	Restart. If the same symptom recurs, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
39008	FFIIPInImgCtrl	ImageDB get_Item error.	Image DB viewing error.	Restart. If the same symptom recurs, perform a reinstallation.	
39008	FFIIPInImgCtrl	ImageDB get_Value error.	Image DB viewing error.	Restart. If the same symptom recurs, perform a reinstallation.	
39008	FFIIPInImgCtrl	ImageDB put_Value error. Data:%s	Image DB setup error.	Restart. If the same symptom recurs, perform a reinstallation.	
39008	FFIIPInImgCtrl	ImageDB SetValue error.(%s)	Image DB setup error.	Restart. If the same symptom recurs, perform a reinstallation.	
39008	FFIIPInImgCtrl	ImageDB (%s) set error.	Image DB setup error.	Restart. If the same symptom recurs, perform a reinstallation.	
39008	FFIIPInImgCtrl	DICOM&ImageDB data set error.	Image DB setup error.	Restart. If the same symptom recurs, perform a reinstallation.	
39008	FFIIPInImgCtrl	ImageDB UpdateRecordset error.	Image DB update error.	Restart. If the same symptom recurs, perform a reinstallation.	
39008	FFIIPInImgCtrl	ImageDB CloseRecordset error.	Image DB close error.	Restart. If the same symptom recurs, perform a reinstallation.	
39008	FFIIPInImgCtrl	ImageDB close error.	Image DB close error.	Restart. If the same symptom recurs, perform a reinstallation.	
39008	FFIIPInImgCtrl	ImageDB: ReceiveFlag set error.	ReceiveFlag setup error.	Restart. If the same symptom recurs, perform a reinstallation.	
39008	FFIIPInImgCtrl	ImageDB access error.	Image DB access error.	Restart. If the same symptom recurs, perform a reinstallation.	
39008	FFIIPInImgCtrl	ImageDB access(%s) error.	Image DB access error.	Restart. If the same symptom recurs, perform a reinstallation.	
39008	FFIIPInImgCtrl	ImageDB access error.(%s)	Image DB access error.	Restart. If the same symptom recurs, perform a reinstallation.	
39008	FFIIPInImgCtrl	SysConfig DB access error.	SysConfig DB access error.	Restart. If the same symptom recurs, perform a reinstallation.	
39008	FFIIPInImgCtrl	Net Config DB access error.	NetConfig DB access error.	Restart. If the same symptom recurs, perform a reinstallation.	
39008	FFIIPInImgMgr	Insufficient memory. %n[%1]	The available memory was insufficient.	Restart.	
39009	FFIIPInImgCtrl	Socket access error. [Detailed error information 39009 5 items]	The problem is attributable to a disconnected RU or the like.	Check the connection to the RU.	
39009	FFIIPInImgCtrl	Socket error.	Error occurred during socket generation termination processing.	Check the connection to the RU.	
39009	FFIIPInImgCtrl	Socket connect error.	Error occurred during socket connection processing.	Check the connection to the RU.	
39009	FFIIPInImgCtrl	Socket close error.	Error occurred during socket disconnection processing.	Check the connection to the RU.	

Event	Event Source	Description	Causes	Remedies	Remarks
39009	FFIIPInImgCtrl	Socket recv error.	Error occurred while receiving data from the socket.	Check the connection to the RU.	
39009	FFIIPInImgCtrl	Socket recv time out.	Timeout detected while receiving data from the socket.	Check the connection to the RU.	
39009	FFIIPInImgMgr	Create Dicom Data Object Failed. %n[%1]	Data object creation was not successfully completed.	Restart.	
39010	FFIIPInImgCtrl	DICOMDataObj data area.	An exception occurred when accessing to the information file (DDO).	Restart. If the same symptom recurs, perform a reinstallation.	
39010	FFIIPInImgCtrl	Exception error. [Detailed error information 39010 5 items]	Exception handling was done.	Restart. If the same symptom frequently occurs, perform a reinstallation.	
39010	FFIIPInImgCtrl	Exception error. Property = %s	An exception occurred when setting DICOM SCP control properties (%s).	Restart. If the same symptom recurs, perform a reinstallation.	
39010	FFIIPInImgCtrl	Exception error. Method = %s	An exception occurred when performing the DICOM SCP control method (%s).	Restart. If the same symptom recurs, perform a reinstallation.	
39010	FFIIPInImgCtrl	Exception error. / Exception error.(%s)	An exception occurred. (Processing type.)	Restart. If the same symptom recurs, perform a reinstallation.	
39010	FFIIPInImgCtrl	MemoryException error.	An exception occurred while acquiring memory.	Restart. If the same symptom recurs, perform a reinstallation.	
39010	FFIIPInImgMgr	Input Image Operation is Busy. %n[%1]	The disk was full or the connection limit was exceeded by the input request (busy state).	This is not an operating error. Wait a while and then input again.	
39901	FFInitializingStudy	[%1] An exception error occurred(%2).	An exception error occurred.	Restart.	
39902	FFInitializingStudy	[%1] %2.	An error occurred.	Restart.	
41001	FFCustomMsgBox	[41001] The device is not ready.	No floppy disk was set in position.	Set media that is appropriate for the device.	
41002	FFCustomMsgBox	[41002] Remaining capacity is insufficient.	The file to be copied was too large to fit onto the media at the receiving end.	Switch to larger-capacity media.	
41003	FFCustomMsgBox	[41003] Destination for file copy is illegal.	An invalid pathname was specified as the file copy destination.	Check the system setup.	
41004	FFCustomMsgBox	[41004] E-mail program cannot be started.	Outlook was not properly set up	Exit IIP and then complete Outlook setup.	
41005	FFCustomMsgBox	[41005] No data cannot be written on the disk	The disk was write-protected or damaged.	Check the disk.	
41106	FFCustomMsgBox	[41106] Hard Disk Full.	The hard disk was full.	Exit QA, delete unnecessary images from the list, and retry the distribution.	
41107	FFCustomMsgBo	[41107] Hard Disk Full.	The hard disk was full.	Exit QA, delete unnecessary images from the list, and retry the distribution.	

Event	Event Source	Description	Causes	Remedies	Remarks
41107	FFCustomMsgBo	[41107] Hard Disk Full.	The hard disk was full.	Exit QA, delete unnecessary images from the list, and retry the distribution.	
43000	FFQAManagerCom	%S	Information for development personnel.	There are operational problems.	A character string is placed in the "%S" position.
43010	FFIIPInImgCtrl	Can't Get FontSize Information.	The font size was not registered in the registry.	Reinstall the IIP because the displayed characters can be corrupted.	
43010	FFQAManagerCom	Can't Get FontSize Information.	The font size was not registered in the registry.	Reinstall the IIP because the displayed characters can be corrupted.	
43020	FFIIPInImgCtrl	Can't Get Caption Information.	The character string database did not exist or was damaged.	Reinstall the IIP because the displayed characters can be corrupted.	
43060	FFQAManagerCom	[Control: %1 , Function: %2 , Code: %3]	The character string database did not exist or was damaged.	Reinstall the IIP because the displayed characters can be corrupted.	
43061	FFQAManagerCom	[Control: %1 , Function: %2 , Code: %3]	The character string database did not exist or was damaged.	Reinstall the IIP because the displayed characters can be corrupted.	
43062	FFQAManagerCom	[Control: %1 , Function: %2 , Code: %3]	The character string database did not exist or was damaged.	Reinstall the IIP because the displayed characters can be corrupted.	
43063	FFQAManagerCom	[Control: %1 , Function: %2 , Code: %3]	The character string database did not exist or was damaged.	Reinstall the IIP because the displayed characters can be corrupted.	
43064	FFQAManagerCom	[Control: %1 , Function: %2 , Code: %3]	The character string database did not exist or was damaged.	Reinstall the IIP because the displayed characters can be corrupted.	
43110	FFIIPInImgCtrl	Can't Access Local Configuration Data.	The language setup data was not obtained.	Reinstall the IIP because the displayed characters can be corrupted.	
43301	FFQAManagerCom	[Control: %1 , Function: %2 , Code: %3]	The screen size was not obtained.	Reinstall the IIP because the displayed characters can be corrupted.	
43310	FFQAManagerCom	[Control: %1 , Function: %2 , Code: %3]	The language setup data was not obtained.	Reinstall the IIP because the displayed characters can be corrupted.	
44354	FFCustomMsgBox	[44354] Invalid character has been input in ID #.	The entered data was abnormal due, for instance, to the inclusion of an unacceptable character.	Make a proper entry.	
44355	FFCustomMsgBox	[44355] Invalid character has been input in Study #.	The entered data was abnormal due, for instance, to the inclusion of an unacceptable character.	Make a proper entry.	
44356	FFCustomMsgBox	[44356] Invalid character has been input in patient name.	The entered data was abnormal due, for instance, to the inclusion of an unacceptable character.	Make a proper entry.	
44357	FFCustomMsgBox	[44357] Invalid character has been input in kanji-patient name.	The entered data was abnormal due, for instance, to the inclusion of an unacceptable character.	Make a proper entry.	
44358	FFCustomMsgBox	[44358] Invalid character has been input in the sex (gender).	The entered data was abnormal due, for instance, to the inclusion of an unacceptable character.	Make a proper entry.	

Event	Event Source	Description	Causes	Remedies	Remarks
44359	FFCustomMsgBox	[44359] Format of date of birth is not applicable.	The entry did not agree with the date format defined by system setup.	Make a proper entry.	
44360	FFCustomMsgBox	[44360] The same study No. already exists.	An attempt was made to enter an examination number that was already used.	Enter another number.	
44361	FFCustomMsgBox	[44361] Anatomical region has not been input.	An anatomical region name was not entered.	Make a proper entry.	
44362	FFCustomMsgBox	[44362] Invalid character has been input in the anatomical regio	The entered data was abnormal due, for instance, to the inclusion of an unacceptable character.	Make a proper entry.	
44363	FFCustomMsgBox	[44363] Invalid character has been input in the kanji-anatomical region.	The entered data was abnormal due, for instance, to the inclusion of an unacceptable character.	Make a proper entry.	
44364	FFCustomMsgBox	[44364] No menu name has been input.	A menu name was not entered.	Make a proper entry.	
44365	FFCustomMsgBox	[44365] Invalid character has been input in the menu name.	The entered data was abnormal due, for instance, to the inclusion of an unacceptable character.	Make a proper entry.	
44366	FFCustomMsgBox	[44366] Invalid character has been input in the kanji-menu name.	The entered data was abnormal due, for instance, to the inclusion of an unacceptable character.	Make a proper entry.	
44367	FFCustomMsgBox	[44367] Invalid character has been input in the film annotation characters.	The entered data was abnormal due, for instance, to the inclusion of an unacceptable character.	Make a proper entry.	
44368	FFCustomMsgBox	[44368] No patient information has been input.	The patient information was not entered.	Make a proper entry.	
44369	FFCustomMsgBox	[44369] The Study ID contained an invalid character.	The entered data was abnormal due, for instance, to the inclusion of an unacceptable character.	Make a proper entry.	
44551	FFCustomMsgBox	[44551] Film format will be changed.	This window opens for confirmation only.		
50000	FFFinpSend	Memory Error.%n%1	The system was abnormal (memory allocation was not accomplished).	Restart.	
50000	FFOutImgPrc	Initialize Error.%n%1	An abnormality was encountered during initialization.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50001	FFCustomMsgBox	[50001] Failed in initializing process.	The system was unstable.	Restart. If the same symptom recurs after a restart, perform a reinstallation.	
50001	FFFinpSend	Dicom Data Object Load Error.%n%1	The DicomDataObject file for output was not found.	Perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
50001	FFIIPOUTPUT	Initialize Error.%n[%1]	Initialization process error. • Output control was not exercised. • The error check method was not successfully called. • A certain other program error occurred.	Restart. If the same symptom frequently occurs, perform a reinstallation.	
50001	FFOutImgPrc	DB Connect Error.%n%1	An abnormality occurred in the connection to a database.	Check whether the SQL service manager is normally operating. If the same symptom occurs while the SQL service manager is normally operating, initialize the image database (the entire image data is then deleted).	
50001	Spooler	Initialize Error.%n[%1]	Initialization process error. • No output control was exercised. • An error check method call was unsuccessful. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation.	Output section container
50002	FFCustomMsgBox	[50002] Failed in output process.	The system was unstable.	Restart. If the same symptom recurs after a restart, perform a reinstallation.	
50002	FFFinpSend	File Open Error.%n%1	There is no output raw data file.	Reinstall.	
50002	FFIIPOUTPUT	State Change Error.%n[%1]	State transition notification process error. • The output destination was not successfully reregistered. • The state transition notification call was not successful. • An unknown program error occurred.	Restart.	
50002	FFOutImgPrc	DB Infomation Error.%n%1	The database information was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50002	Spooler	State Change Error.%n[%1]	State change notification process error. • An output destination was not successfully registered. • A state change notification call was not successful. • Other program error. • Line establishment message transmission error [not used]. • Line abnormality message transmission error [not used]	Restart.	Output section container
50003	FFCustomMsgBox	[50003] Failed in output process.	The system was unstable.	Restart. If the same symptom recurs after a restart, perform a reinstallation.	
50003	FFFinpSend	File Read Error.%n%1	The output raw data file is abnormal.	Reinstall.	

Event	Event Source	Description	Causes	Remedies	Remarks
50003	FFIIPOUTPUT	Routine Change Error.%n[%1]	Routine change process error. • The resumption request was not successfully made.	Restart.	
50003	FFOutImgPrc	System Error.%n%1	The system was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50003	Spooler	Routine Change Error.%n[%1]	Routine change process error. • A resumption request was not successfully made.	Restart.	Output section container
50004	FFCustomMsgBox	[50004] Failed in output process.	The system was unstable.	Restart. If the same symptom recurs after a restart, perform a reinstallation.	
50004	FFFinpSend	FinpSend Error.%n%1	An abnormality occurred in the output sequence.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50004	FFIIPOUTPUT	Spool Error.%n[%1]	Spool process error. • The spool request call was not successfully made. • The reoutput request was not successfully made. • The study termination notification was not successfully made. • The spool request response status was invalid. • An unknown program error occurred.	Restart.	
50004	FFOutImgPrc	I/F Timing Error.%n%1	An interface abnormality was encountered.	Restart.	
50004	Spooler	Spool Error.%n[%1]	Spool process error. • A spool request call was not successfully made. • A reoutput request was not successfully made. • An examination end notification was not successful. • The spool request response state was illegal. • Other program error.	Restart.	Output section container
50005	FFCustomMsgBox	[50005] Failed in output process.	The system was unstable.	Restart. If the same symptom recurs after a restart, perform a reinstallation.	
50005	FFIIPOUTPUT	ExeOutput Error.%n[%1]	Forced-output process error. • The spool forced output request call was not successfully made. • The queue forced output response message was not successfully transmitted. • An unknown program error occurred.	Restart.	

Event	Event Source	Description	Causes	Remedies	Remarks
50005	FFOutImgPrc	CreateFileMapping Error.%n%1	File mapping was unachievable.	Restart.	
50005	Spooler	ExeOutput Error.%n[%1]	Forced output process error. • A spool forced output request was not successfully called. • A queue forced output response message was not successfully transmitted. • Other program error.	Restart.	Output section container
50006	FFCustomMsgBox	[50006] Failed in output process.	The system was unstable.	Restart. If the same symptom recurs after a restart, perform a reinstallation.	
50006	FFIIPOUTPUT	Image Proc Error.%n[%1]	Image processing error. • The image processing request call was not successfully made. • The image processing setup completion call was not successfully made. • The image processing completion notification call was not successfully made. • The image processing job acquisition request was not successfully made. • An unknown program error occurred.	Restart.	
50006	FFOutImgPrc	File Open Error.%n%1	The file could not be opened.	Check the file.	
50007	FFCustomMsgBox	[50007] Failed in terminating process.	The system was unstable.	Restart. If the same symptom recurs after a restart, perform a reinstallation.	
50007	FFIIPOUTPUT	Output Proc Error.%n[%1]	Output processing error. • The output destination information was not successfully acquired. • The output request call was not successfully made. • The output completion notification was not successfully made. • An unknown program error occurred.	Restart.	
50007	FFOutImgPrc	File Read/Write Error.%n%1	A file write/read was unsuccessful. The problem is attributable to a disk.	If the problem frequently occurs, replace the disk or take some other remedial action.	
50007	Spooler	Terminate Error.%n[%1]	Termination process error. • Other program error.	Restart.	Output section container
50008	FFCustomMsgBox	[50008] Failed in image processing for output.	The system was unstable.	Restart. If the same symptom recurs after a restart, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
50008	FFIIPOUTPUT	Commit Proc Error.%n[%1]	Commitment processing error. • The commitment destination information was not successfully acquired. • The commitment request call was not successfully made. • The commitment completion notification was not successfully made. • An unknown program error occurred.	Restart.	
50008	FFOutImgPrc	CreateDispatch Error.%n%1	The control was not successfully initialized.	Check that the control is registered.	
50008	Spooler	Image Proc Error.%n[%1]	Image process error. • An image process request was not successfully called. • An image process setup completion call was not successfully made. • An image process completion notification was not successfully called. • An image process job acquisition request was not successfully issued. • Other program error.	Restart.	Output section container
50009	FFCustomMsgBox	[50009] Failed in output process.	The system was unstable.	Restart. If the same symptom recurs after a restart, perform a reinstallation.	
50009	FFIIPOUTPUT	Queue Resume Error.%n[%1]	Queue resumption process error. • The queue resumption request call was not successfully made. • The queue resumption response message was not successfully transmitted. • An unknown program error occurred.	Restart.	
50009	FFOutImgPrc	Memory Get Error.%n%1	The system was abnormal (memory allocation was not achieved).	Restart.	
50009	Spooler	Output Proc Error.%n[%1]	Output process error. • Output destination information was not successfully acquired. • An output request was not successfully called. • An output completion notification was not successful. • Other program error.	Restart.	Output section container
50010	FFIIPOUTPUT	Queue Delete Error.%n[%1]	Queue deletion process error. • The queue deletion request was not successfully made. • The queue deletion response message was not successfully transmitted. • An unknown program error occurred.	Restart.	

Event	Event Source	Description	Causes	Remedies	Remarks
50010	FFOutImgPrc	Memory(DDO) Get Error.%n%1	The system was abnormal (memory allocation was not achieved).	Restart.	
50010	Spooler	Queue Resume Error.%n[%1]	Queue resumption process error. • A queue resumption request was not successfully called. • A queue resumption response message was not successfully transmitted. • Other program error.	Restart.	Output section container
50011	FFIIPOUTPUT	Unit Suspend Error.%n[%1]	Equipment output suspension process error. • The equipment output suspension request call was not successfully made. • The equipment output suspension response message was not successfully transmitted. • An unknown program error occurred.	Restart.	
50011	FFOutImgPrc	Memory(VR) Get Error.%n%1	The system was abnormal (memory allocation was not achieved).	Restart.	
50011	Spooler	Queue Delete Error.%n[%1]	Queue deletion process error. • A queue deletion request was not successfully issued. • A queue deletion response message was not successfully transmitted. • Other program error.	Restart.	Output section container
50012	FFIIPOUTPUT	Unit Resume Error.%n[%1]	Equipment output resumption error. • The equipment output resumption request call was not successfully made. • The equipment output resumption response message was not successfully transmitted. • An unknown program error occurred.	Restart.	
50012	FFOutImgPrc	Dicom Data Object Error.%n%1	Dicom Data Object was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50012	Spooler	Unit Suspend Error.%n[%1]	Unit output suspension process error. • A unit output suspension request was not successfully called. • A unit output suspension response message was not successfully transmitted. • Other program error.	Restart.	Output section container
50013	FFOutImgPrc	Dicom Data Object No Data.%n%1	Dicom Data Object did not contain any data.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	

Event	Event Source	Description	Causes	Remedies	Remarks
50013	Spooler	Unit Resume Error.%n[%1]	Unit output resumption process error. • A unit output resumption request was not successfully called. • A unit output resumption response message was not successfully transmitted. • Other program error.	Restart.	Output section container
50015	FFIIPOUTPUT	Terminate Error.%n[%1]	Termination process error. • An unknown program error occurred.	Restart	
50020	FFOutImgPrc	Data Error.%n%1	A data abnormality was encountered.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50021	FFOutImgPrc	Output Job DB Error.%n%1	The output database was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50022	FFOutImgPrc	Memory Over.%n%1	A memory area abnormality was encountered.	Restart.	
50030	FFOutImgPrc	OutImgPrc Error.%n%1	An abnormality occurred.	Restart.	
50100	FFOutImgPrc	IFormatCom Error.%n%1	The format calculation object was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50100	Spooler	Spooler Error.%n%1	Common error message. • Queue information class related message. An output job file was not successfully accessed. Output job information was not successfully accessed. Film information was not successfully acquired. information was not successfully acquired. The job status was not successfully acquired (program error). Job information was not successfully freed. • Unit information class related message. Unit information was not successfully freed. • Spooler class related message. The film count was not successfully checked. The image count/image information area was not successfully acquired. Unit information was not successfully acquired. • Other program error	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50101	FFOutImgPrc	IRawMakeCom Error.%n%1	The raw data creation object was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	

Event	Event Source	Description	Causes	Remedies	Remarks
50101	Spooler	RunProc Error.%n%1	Initialization process error. • The spooler control state was abnormal. • A spool start process was in error. • A database connection was not successfully closed. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50102	FFOutImgPrc	FFNetDB Error.%n%1	An abnormality occurred at the time of network setup data acquisition. (It is conceivable that the network setup database was abnormal.)	Restart. If the same symptom frequently occurs, perform a reinstallation.	
50102	Spooler	OutputRegisterProc Error.%n%1	Output destination registration process error. • The spooler control state was abnormal. • An illegal parameter was encountered. • An output destination registration request message was not successfully issued. • An output destination was not successfully registered. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50103	FFOutImgPrc	IImgJpegCtrl Error.%n%1	The decompression object was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50103	Spooler	StateChangeProc Error.%n%1	Local printer/Dicom printer state change notification process error. • The spooler control state was abnormal. • An illegal parameter was encountered. • A printer state change notification message was not successfully issued. • The unit status was not successfully acquired. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50104	FFOutImgPrc	IFMImgSkGpCtrl Error.%n%1	The normalization process object was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50104	Spooler	ErrorCheckProc Error.%n%1	Data integrity check process error. • The spooler control state was abnormal. • A data integrity check request message was not successfully issued. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50105	FFOutImgPrc	IFMImgVRSCtrl Error.%n%1	The zoom object (VRS method) was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	

Event	Event Source	Description	Causes	Remedies	Remarks
50105	Spooler	RestoreJob Error.%n%1	Job restoration error. • The spooler control state was abnormal. • An unprocessed job restoration request message was not successfully issued. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50106	FFOutImgPrc	IRotateCom Error.%n%1	The rotation object was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50106	Spooler	SpoolProc Error.%n%1	Spool process error. • The spooler control state was abnormal. • A parameter error occurred. • A spool request message was not successfully issued. • DDO file information was not successfully acquired. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50107	FFOutImgPrc	IFMImgParamCtrl Error.%n%1	The image process management parameter object was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50107	Spooler	ReoutputProc Error.%n%1	Reoutput start process error. • The spooler control state was abnormal. • An illegal parameter was encountered. • A reoutput start message was not successfully issued. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50108	FFOutImgPrc	IFMImgHandCtrl Error.%n%1	The CR image process object was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50108	Spooler	StudyReqEndProc Error.%n%1	Study termination request processing error. • Spooler control status error. • Illegal parameters. • Failed in issuing study termination request message. • Other program errors.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50109	FFOutImgPrc	IFMImgFCmpCtrl Error.%n%1	FCR compression (compression/decompression (Fuji's unique method)) was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	

Event	Event Source	Description	Causes	Remedies	Remarks
50109	Spooler	ExeOutputJob Error.%n%1	Forced output request process error. • The spooler control state was abnormal. • An illegal parameter was encountered. • A forced output request message was not successfully issued. • The requested output image data did not exist. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50110	FFOutImgPrc	IDataToPrintCom Error.%n%1	Data conversion (for DICOM) was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50110	Spooler	GetImageProcJob Error.%n%1	Image processing job acquisition process error. • The spooler control state was abnormal. • An image processing job acquisition request message was not successfully issued. • Data was not databased. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50111	FFOutImgPrc	IDataToStorageCom Error.%n%1	Data conversion (for DICOM Storage) was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50111	Spooler	SetImageProcComplete Error.%n%1	Image processing completion notification process error. • The spooler control state was abnormal. • An illegal parameter was encountered. • An image processing completion notification message was not successfully issued. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50112	FFOutImgPrc	IFMImgMoireCtrl Error.%n%1	Moire elimination was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50112	Spooler	GetOutputProcJob Error.%n%1	Output job acquisition response process error. • The spooler control state was abnormal. • An output job acquisition response message was not successfully issued. • Data was not databased. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50113	FFOutImgPrc	IFilmCharMakeCom Error.%n%1	The film annotation character generation object was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	

Event	Event Source	Description	Causes	Remedies	Remarks
50113	Spooler	SetOutputProcComplete Error.%n%1	Output completion notification process error. • The spooler control state was abnormal. • An illegal parameter was encountered. • An output completion notification message was not successfully issued. • Data was not databased. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50114	FFOutImgPrc	MaskProcExec Error.%n%1	The blackening process was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50114	Spooler	GetCommitProcJob Error.%n%1	Commitment job acquisition response process error. • The spooler control status was abnormal. • The commitment jog acquisition response message was not successfully issued. • The data was not found in the database. • An unknown program error occurred.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50115	FFOutImgPrc	RecognizeProcExec Error.%n%1	The blackening automatic recognition process was abnormal.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50115	Spooler	QueueResume Error.%n%1	Queue output resumption request process error. • The spooler control state was abnormal. • An illegal parameter was encountered. • A queue output resumption request message was not successfully issued. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50115	Spooler	SetCommitProcComplete Error.%n%1	Commitment completion notification process error. • The spooler control status was abnormal. • An illegal parameter was encountered. • The commitment completion notification message was not successfully issued. • The queue was not found. • The data was not found in the database. • An unknown program error occurred.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	

Event	Event Source	Description	Causes	Remedies	Remarks
50116	Spooler	QueueDelete Error.%n%1	Queue deletion request process error. • The spooler control state was abnormal. • An illegal parameter was encountered. • A queue deletion request message was not successfully issued. • Output job file information was not successfully accessed. • Queue deletion was not successful. • Database access was not successful. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50117	Spooler	QueueResume Error.%n%1	Queue output resumption request process error. • The spooler control status was abnormal. • An illegal parameter was encountered. • The queue output resumption request message was not successfully issued. • An unknown program error occurred.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50117	Spooler	UnitSuspend Error.%n%1	Unit suspension request process error. • The spooler control state was abnormal. • An illegal parameter was encountered. • A unit suspension request message was not successfully issued. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50118	Spooler	QueueDelete Error.%n%1	Queue deletion request process error. • The spooler control status was abnormal. • An illegal parameter was encountered. • Failed in issuing a queue deletion request message. • Failed in accessing the output job file information. • Failed in deleting the queue. • Failed in accessing the database. • An unknown program error occurred.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50118	Spooler	UnitResume Error.%n%1	Unit resumption request process error. • The spooler control state was abnormal. • An illegal parameter was encountered. • A unit resumption request message was not successfully issued. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50119	Spooler	SuspendProc Error.%n%1	Suspension request process error. • The spooler control state was abnormal. • A suspension request message was not successfully issued. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler

Event	Event Source	Description	Causes	Remedies	Remarks
50119	Spooler	UnitSuspend Error.%n%1	Equipment suspension request process error. • The spooler control status was abnormal. • An illegal parameter was encountered. • The equipment suspension request message was not successfully issued. • An unknown program error occurred.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50120	Spooler	ResumeProc Error.%n%1	Resumption request process error. • The spooler control state was abnormal. • A resumption request message was not successfully issued. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50120	Spooler	UnitResume Error.%n%1	Equipment resumption request process error. • The spooler control status was abnormal. • An illegal parameter was encountered. • The equipment resumption request message was not successfully issued. • An unknown program error occurred.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50121	Spooler	EndProc Error.%n%1	End request process error. • The spooler control state was abnormal. • An end request message was not successfully issued. • Other program error.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
50121	Spooler	SuspendProc Error.%n%1	Suspension request process error. • The spooler control status was abnormal. • The suspension request message was not successfully issued. • An unknown program error occurred.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50122	Spooler	ResumeProc Error.%n%1	Resumption request process error. • The spooler control status was abnormal. • The resumption request message was not successfully issued. • An unknown program error occurred.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
50123	Spooler	EndProc Error.%n%1	Termination request process error. • The spooler control status was abnormal. • The termination request message was not successfully issued. • An unknown program error occurred.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	

Event	Event Source	Description	Causes	Remedies	Remarks
51001	FFIIPOUTPUT	Initialize Warning.%n[%1]	Initialization process warning. • The output equipment execution was not successfully started. • The output equipment name (AE name/host name) was not successfully acquired (there was an inconsistency between the option and network settings). • The FFNET database was not successfully accessed	Check the network settings. If any setting is incorrect, perform a reinstallation.	
51001	Spooler	Initialize Warning.%n[%1]	Initialization process warning. • An output device execution was not successfully started. • An output device name (AE name/host name) was not successfully acquired. • FFNETDB access was unsuccessful.	Restart. If the same symptom frequently occurs, perform a reinstallation.	Output section container
51002	FFIIPOUTPUT	State Change Warning.%n[%1]	State transition notification process warning. • The response to an acquisition request was not successfully made.	Restart.	
51002	Spooler	State Change Warning.%n[%1]	State change notification process warning. • An acquisition request was not successfully answered.	Restart.	Output section container
51007	Spooler	Terminate Warning.%n[%1]	Termination process warning. • A process status flag was not successfully set. • A process termination response message was not successfully transmitted. • An abnormality occurrence notification message was not successfully transmitted. • A message box was not successfully displayed. • A spooler termination request was not successfully called. • A spooler control end request was not successfully called. • The spooler control end response state was abnormal. • An image process control end request was not successfully issued. • An output device control end request was not successfully issued. • The output device control end response state was abnormal.	Restart.	Output section container

Event	Event Source	Description	Causes	Remedies	Remarks
51015	FFIIPOUTPUT	Terminate Warning.%n[%1]	Termination process warning. • The process status flag was not successfully set. • The process termination response message was not successfully transmitted. • The abnormality occurrence notification message was not successfully transmitted. • The message box was not successfully opened. • The spooler termination request call was not successfully made. • The spooler control termination request call was not successfully made. • The spooler control termination response status was abnormal. • The image processing control termination request was not successfully made. • The output equipment control termination request was not successfully made. • The output equipment control termination response status was abnormal.	Restart.	
51501	FFCustomMsgBox	[51501] Failed in initialization processing.	An abnormality occurred during the initialization of the FINP input subsystem.	Processes other than FINP input can be performed.	
51502	FFCustomMsgBox	[51502] Descrepancy in settings.	The PRINT attribute output destination was not specified.	Specify the PRINT attribute output destination.	
52000	FFFinpSend	Warning.%n%1	Information for development personnel.	There is no problem with operations.	
52000	FFOutImgPrc	Warning.%n%1	Information for development personnel.	There is no problem with operations.	
52002	FFEifPrinter	SMCU Driver error. [%1]	An error occurred in the SMCU driver. The problem might have been caused, for instance, by data incompleteness or system instability.	Restart.	
52003	FFEifPrinter	EIFIMG Driver error. [%1]	An error occurred in the EIFIMG driver. It is conceivable that the system was unstable.	Restart.	
52004	FFEifPrinter	Received unexpected command. [%1]	An unknown command was received from the printer.	Check the log of communications with the connected printer or restart the printer/IIP.	
52006	FFEifPrinter	File Error. [%1]	The raw data file for output was not found.	Since the problem is attributable to a program error, try performing a reinstall.	

Event	Event Source	Description	Causes	Remedies	Remarks
52100	Spooler	Spooler Warning.%n%1	Common warning message. • Queue information class related message. Image information (SOPInstanceUID) was not successfully acquired. The job status was not successfully acquired. • Spooler class related message. A database connection was not successfully closed. • Illegal image display format data.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
52101	Spooler	RunProc Warning.%n%1	Initialization process warning. • A character string database connection was not successfully opened.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
52103	Spooler	StateChangeProc Warning.%n%1	Local printer/Dicom printer state change notification process warning. • A unit state character string was not successfully acquired.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
52105	Spooler	RestoreJob Warning.%n%1	Job restoration warning. • An output job file was not successfully accessed.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
52106	Spooler	SpoolProc Warning.%n%1	Spool process warning. • Unit information acquisition was not successful. • File deletion was not successful. • Queue cancellation was not successful. • Data was not successfully written into a log file.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
52108	Spooler	StudyReqEndProc Warning.%n%1	Examination end request process warning. • A database was not successfully accessed. • DDO file information was not successfully acquired.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
52109	Spooler	ExeOutputJob Warning.%n%1	Forced output request process warning. • DDO file information was not successfully acquired.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
52110	Spooler	GetImageProcJob Warning.%n%1	Image processing job acquisition process warning. • An output unit type parameter error occurred.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
52112	Spooler	GetOutputProcJob Warning.%n%1	Output job acquisition response process warning. • An output unit type parameter error was encountered.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler

Event	Event Source	Description	Causes	Remedies	Remarks
52114	Spooler	GetCommitProcJob Warning.%n%1	Commitment job acquisition response process warning. • A commitment equipment type parameter error occurred.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
52116	Spooler	QueueDelete Warning.%n%1	Queue deletion request process warning. • An image database flag was not successfully set. • The DDO file was not successfully deleted.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
52117	Spooler	UnitSuspend Warning.%n%1	Unit suspension request process warning. • A unit status character string was not successfully acquired.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
52118	Spooler	QueueDelete Warning.%n%1	Queue deletion request process warning. • The image database flag was not successfully set. • The DDO file was not successfully deleted.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
52118	Spooler	UnitResume Warning.%n%1	Unit resumption request process warning. • A unit status acquisition error occurred.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
52119	Spooler	UnitSuspend Warning.%n%1	Equipment suspension request process warning. • The equipment status character string was not successfully acquired.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
52120	Spooler	UnitResume Warning.%n%1	Equipment resumption request process warning. • An equipment status acquisition error occurred.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	
53000	FFFinpSend	Infomation.%n%1	Information for development personnel.	There is no problem with operations.	
53000	FFOutImgPrc	Infomation.%n%1	Information for development personnel.	There are no operational problems.	
53106	Spooler	SpoolProc Infomation.%n%1	Information in a spool process. • Unit type mismatch notification.	Restart. If the same symptom frequently occurs, perform a reinstallation and then initialize the image database.	Spooler
59001	FFEifPrinter	System call has failed. [%1]	An error returned upon a WIN32 API function call. It is conceivable that the system was unstable.	Restart.	
59005	FFEifPrinter	Unable to setup timers. [%1]	An unknown timer event occurred. It is conceivable that the system was unstable.	Restart.	
60000	FFCustomMsgBox	[60000] Failed in accessing the database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
60002	FFCustomMsgBox	[60002] User Utility will be terminated.	There is no alternative but to exit the program due to the occurrence of an abnormality.	Restart. If the same symptom recurs, perform a reinstallation.	
60050	FFCustomMsgBox	[60050] Failed in accessing the character string database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
60051	FFCustomMsgBox	[60051] Failed in accessing the system setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
60052	FFCustomMsgBox	[60052] Failed in obtaining the registry information.	It is conceivable that the registry information was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
60053	FFCustomMsgBox	[60053] Value of registry information is abnormal.	It is conceivable that the registry information was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
60054	FFCustomMsgBox	[60054] Failed in obtaining the information from the character string database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
60055	FFCustomMsgBox	[60055] Failed in obtaining the information from the system setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
60080	FFCustomMsgBox	[60080] Failed in obtaining the display group information.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
60081	FFCustomMsgBox	[60081] Failed in obtaining the menu information.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
60100	FFCustomMsgBox	[60100] Failed in obtaining the MPM code.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
60114	FFCustomMsgBox	[60114] Failed in obtaining the XCON parameter.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
60183	FFCustomMsgBox	[60183] Failed in accessing the technician information database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
60184	FFCustomMsgBox	[60184] Failed in accessing the technician information database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
60185	FFCustomMsgBox	[60185] Failed in obtaining the information from the system setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
60203	FFCustomMsgBox	[60203] Failed in accessing the requesting department information database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
60204	FFCustomMsgBox	[60204] Failed in accessing the requesting department information database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	

Event	Event Source	Description	Causes	Remedies	Remarks
60205	FFCustomMsgBox	[60205] Failed in obtaining the information from the system setting database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
60215	FFCustomMsgBox	[60215] Failed in accessing the film annotation database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
60216	FFCustomMsgBox	[60216] Failed in accessing the film annotation database.	It is conceivable that the database file was damaged or deleted.	Restart. If the same symptom recurs, perform a reinstallation.	
60260	FFCustomMsgBox	[60260] System has not been rebooted.	It is conceivable that the IIP executable file was damaged or deleted.	Reinstall.	
61060	FFCustomMsgBox	[61060] Wrong password has been input.	An incorrect password was entered.	The password is fixed at "1111".	
61082	FFCustomMsgBox	[61082] No menu has been selected.	An attempt was made to start an editing or like operation without selecting any menu.	Complete a menu selection before initiating an editing or like operation.	
61083	FFCustomMsgBox	[61083] Already registered for displaying and cannot be deleted.	The menu could not be deleted because it was registered for display.	Clear the registration for display and then delete the menu.	
61084	FFCustomMsgBox	[61084] Already registered to the study menu and cannot be deleted.	The menu could not be deleted because it was registered for the examination menu.	Remove the target menu from the examination menu in advance.	
61085	FFCustomMsgBox	[61085] No menu was registered for a certain display group.	A certain display group was empty because no menu was registered for it.	No empty display group is allowed to exist. Register one or more menus for the display group or delete the display group.	
61090	FFCustomMsgBox	[61090] Invalid character has been input in the display group name.	The entered data was abnormal due, for instance, to the inclusion of an unacceptable character.	Make a proper entry.	
61093	FFCustomMsgBox	[61093] Display group will be deleted.	This window opens for confirmation only.		
61094	FFCustomMsgBox	[61094] Display group name is illegal.	The entered data was abnormal due, for instance, to its excessive length or the inclusion of an unacceptable character.	Make a proper entry.	
61103	FFCustomMsgBox	[61103] Same extension menu code already exists.	The entered data value was already registered or otherwise unacceptable.	Enter another value.	
61106	FFCustomMsgBox	[61106] Same ANK exposure menu name already exists.	The entered data value was already registered or otherwise unacceptable.	Enter another value.	
61109	FFCustomMsgBox	[61109] Same kanji-exposure menu name already exists.	The entered data value was already registered or otherwise unacceptable.	Enter another value.	
61110	FFCustomMsgBox	[61110] Extension menu code is illegal.	The entered data was abnormal due, for instance, to its excessive length or the inclusion of an unacceptable character.	Make a proper entry.	

Event	Event Source	Description	Causes	Remedies	Remarks
61111	FFCustomMsgBox	[61111] ANK exposure menu name is illegal.	The entered data was abnormal due, for instance, to its excessive length or the inclusion of an unacceptable character.	Make a proper entry.	
61112	FFCustomMsgBox	[61112] Kanji-exposure menu name is illegal.	The entered data was abnormal due, for instance, to its excessive length or the inclusion of an unacceptable character.	Make a proper entry.	
61122	FFCustomMsgBox	[61122] MPM code is illegal.	The entered data was abnormal due, for instance, to its excessive length or the inclusion of an unacceptable character.	Make a proper entry.	
61125	FFCustomMsgBox	[61125] Same film annotation already exists.	The entered data value was already registered or otherwise unacceptable.	Enter another value.	
61130	FFCustomMsgBox	[61130] Device code is illegal.	The entered data was abnormal due, for instance, to its excessive length or the inclusion of an unacceptable character.	Make a proper entry.	
61131	FFCustomMsgBox	[61131] Film-related code is illegal.	The entered data was abnormal due, for instance, to its excessive length or the inclusion of an unacceptable character.	Make a proper entry.	
61132	FFCustomMsgBox	[61132] Auto-exposure mechanism is illegal.	The entered data was abnormal due, for instance, to its excessive length or the inclusion of an unacceptable character.	Make a proper entry.	
61142	FFCustomMsgBox	[61142] Same study menu code already exists.	The entered data value was already registered or otherwise unacceptable.	Enter another value.	
61145	FFCustomMsgBox	[61145] Same ANK study menu name already exists.	The entered data value was already registered or otherwise unacceptable.	Enter another value.	
61148	FFCustomMsgBox	[61148] Same kanji-study menu name already exists.	The entered data value was already registered or otherwise unacceptable.	Enter another value.	
61149	FFCustomMsgBox	[61149] No exposure menu has been selected.	An attempt was made to start an editing or like operation without selecting any menu.	Complete a menu selection before initiating an editing or like operation.	
61151	FFCustomMsgBox	[61151] Exposure menu cannot be registered.	The maximum permissible number of menu registrations was exceeded.	Delete any unnecessary menu.	
61152	FFCustomMsgBox	[61152] Same exposure menu has already been registered.	The entered data value was already registered or otherwise unacceptable.	Enter another value.	
61153	FFCustomMsgBox	[61153] Study menu code is illegal.	The entered data was abnormal due, for instance, to its excessive length or the inclusion of an unacceptable character.	Make a proper entry.	
61154	FFCustomMsgBox	[61154] ANK study menu code is illegal.	The entered data was abnormal due, for instance, to its excessive length or the inclusion of an unacceptable character.	Make a proper entry.	
61155	FFCustomMsgBox	[61155] Kanji-study menu code is illegal.	The entered data was abnormal due, for instance, to its excessive length or the inclusion of an unacceptable character.	Make a proper entry.	

Event	Event Source	Description	Causes	Remedies	Remarks
61171	FFCustomMsgBox	[61171] No technician code has been input.	An attempt was made to register data with an input field left blank.	Enter a value.	
61172	FFCustomMsgBox	[61172] Technician code is illegal.	The entered data was abnormal due, for instance, to its excessive length or the inclusion of an unacceptable character.	Make a proper entry.	
61173	FFCustomMsgBox	[61173] Invalid character has been input in the technician code.	An unacceptable character was contained.	Make a proper entry.	
61174	FFCustomMsgBox	[61174] Same technician code already exists.	The entered data value was already registered or otherwise unacceptable.	Enter another value.	
61175	FFCustomMsgBox	[61175] No ANK technician name has been input.	An attempt was made to register data with an input field left blank.	Enter a value.	
61176	FFCustomMsgBox	[61176] ANK technician name is too long.	The entered data was too long.	Make a proper entry.	
61177	FFCustomMsgBox	[61177] Invalid character has been input in the ANK technician name.	An unacceptable character was contained.	Make a proper entry.	
61178	FFCustomMsgBox	[61178] Same ANK technician name already exists.	The entered data value was already registered or otherwise unacceptable.	Enter another value.	
61179	FFCustomMsgBox	[61179] No kanji-technician name has been input.	An attempt was made to register data with an input field left blank.	Enter a value.	
61180	FFCustomMsgBox	[61180] Kanji-technician name is too long.	The entered data was too long.	Make a proper entry.	
61181	FFCustomMsgBox	[61181] Invalid character has been input in the kanji-technician name.	An unacceptable character was contained.	Make a proper entry.	
61182	FFCustomMsgBox	[61182] Same kanji-technician name already exists.	The entered data value was already registered or otherwise unacceptable.	Enter another value.	
61191	FFCustomMsgBox	[61191] No requesting department code has been input.	An attempt was made to register data with an input field left blank.	Enter a value.	
61192	FFCustomMsgBox	[61192] Requesting department code is too long.	The entered data was too long.	Make a proper entry.	
61193	FFCustomMsgBox	[61193] Invalid character has been input in the requesting department code.	An unacceptable character was contained.	Make a proper entry.	
61194	FFCustomMsgBox	[61194] Same requesting department code already exists.	The entered data value was already registered or otherwise unacceptable.	Enter another value.	

Event	Event Source	Description	Causes	Remedies	Remarks
61195	FFCustomMsgBox	[61195] No ANK requesting department name has been input.	An attempt was made to register data with an input field left blank.	Enter a value.	
61196	FFCustomMsgBox	[61196] ANK requesting department name is too long.	The entered data was too long.	Make a proper entry.	
61197	FFCustomMsgBox	[61197] Invalid character has been input in the ANK requesting department name.	An unacceptable character was contained.	Make a proper entry.	
61198	FFCustomMsgBox	[61198] Same ANK requesting department name already exists.	The entered data value was already registered or otherwise unacceptable.	Enter another value.	
61199	FFCustomMsgBox	[61199] No kanji-requesting department name has been input.	An attempt was made to register data with an input field left blank.	Enter a value.	
61200	FFCustomMsgBox	[61200] Kanji-requesting department name is too long.	The entered data was too long.	Make a proper entry.	
61201	FFCustomMsgBox	[61201] Invalid character has been input in the Kanji-requesting department name.	The entered data value was already registered or otherwise unacceptable.	Make a proper entry.	
61202	FFCustomMsgBox	[61202] Same kanji-requesting department name already exists.	The entered data value was already registered or otherwise unacceptable.	Enter another value.	
61211	FFCustomMsgBox	[61211] No film annotation characters have been input.	An attempt was made to register data with an input field left blank.	Enter a value.	
61212	FFCustomMsgBox	[61212] Film annotation characters are too long.	The entered data was too long.	Make a proper entry.	
61213	FFCustomMsgBox	[61213] Invalid character has been input in the film annotation characters.	An unacceptable character was contained.	Make a proper entry.	
61214	FFCustomMsgBox	[61214] Same film annotation already exists.	The entered data value was already registered or otherwise unacceptable.	Enter another value.	
61224	FFCustomMsgBox	[61224] Drive is not ready.	No FD was inserted into the FDD.	Insert an FD.	
61234	FFCustomMsgBox	[61234] Drive is not ready.	No FD was inserted into the FDD.	Insert an FD.	
61235	FFCustomMsgBox	[61235] Wrong disk	A wrong FD was inserted into the FDD.	Insert a correct FD.	
61236	FFCustomMsgBox	[61236] Wrong disk	A wrong FD was inserted into the FDD.	Insert a correct FD.	

Event	Event Source	Description	Causes	Remedies	Remarks
64220	FFCustomMsgBox	[64220] Backup is interrupted.	This window opens for confirmation only.		
64221	FFCustomMsgBox	[64221] Backup is completed.	This window opens for confirmation only.		
64222	FFCustomMsgBox	[64222] Backup is being prepared.	This window opens for confirmation only.		
64223	FFCustomMsgBox	[64223] Insert FD.	This window opens for confirmation only.		
64230	FFCustomMsgBox	[64230] Restoring is interrupted.	This window opens for confirmation only.		
64231	FFCustomMsgBox	[64231] Restoring is completed.	This window opens for confirmation only.		
64232	FFCustomMsgBox	[64232] Being restored.	This window opens for confirmation only.		
64233	FFCustomMsgBox	[64233] Insert FD.	This window opens for confirmation only.		
64237	FFCustomMsgBox	[64237] Insert FD.	This window opens for confirmation only.		
64250	FFCustomMsgBox	[64250] Parameter Batch Updating	This window opens for confirmation only.		
94001	FFCustomMsgBox	[94001] The scanner cleaning process was completed.	This window opens for confirmation only.		
94002	FFCustomMsgBox	[94002] The scanner cleaning process could not be performed	Dust removal was unaccomplished due to a problem on the RU side.	Check the RU status.	

CR-IR346/348CL Service Manual

MU: Maintenance Utility

Control Sheet

Issue date	Revision number	Reason	Pages affected
05/30/2001	01	New release (FM3027)	All pages
08/30/2001	03	Revision for software version A04 (FM3125)	I, II, III, IV, 3, 5-7, 13, 14, 16-24, 28-30, 35, 36, 39, 44
08/30/2001	03	Changes in pagination (FM3125)	15, 25-27, 31-34, 37, 38, 40-43

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1. Starting/Exiting the Service Utility

This section explains about the procedures for starting/exiting the Service Utility, which is used as a service utility tool during CL installation and servicing.

■ Starting the Service Utility

The procedure for starting the Service Utility varies depending on whether the CL-PC power is ON or OFF.

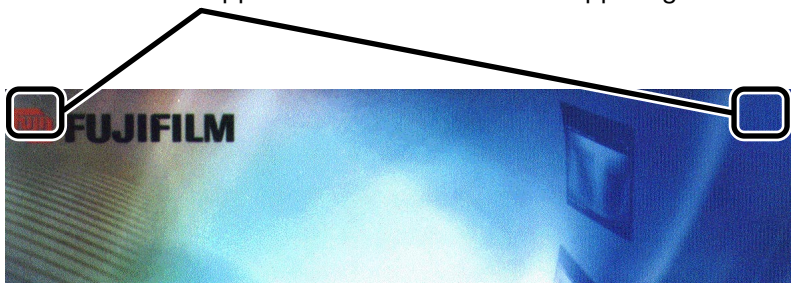
- When the PC power is OFF

1. **Turn ON the PC power.**

➔ Windows 2000 starts up. After about one minute, the CL-AP starts.

2. **When the initial window opens, sequentially click its upper left and upper right corners within a period of 5 seconds.**

Click the upper left corner and then the upper right corner.



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➔ The Service Utility starts and then the “IIP Service Utility” window opens.

- When the PC power is ON

1. **If the CL-AP is already running, hold down the <Shift> key and choose “Shut Down” on the FUJIFILM menu.**

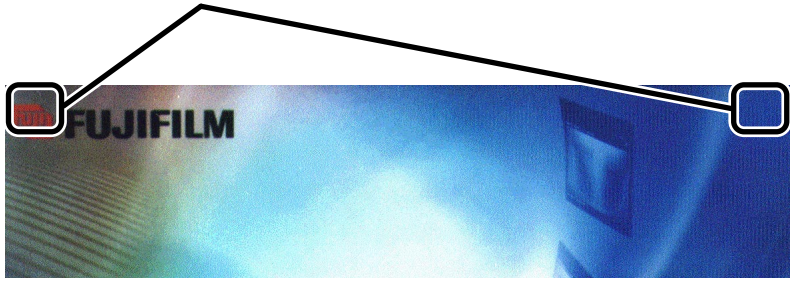
➔ The system returns to the desktop screen.

2. **From the Start menu, sequentially choose “Programs”, “Fuji Film”, and “FCR”.**

➔ The CL-AP starts in about one minute.

3. **When the initial window opens, sequentially click its upper left and upper right corners within a period of 5 seconds.**

Click the upper left corner and then the upper right corner.



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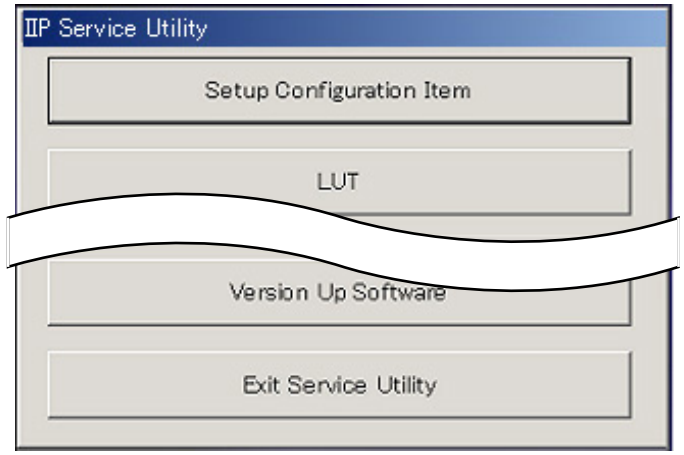
➔ The Service Utility starts and then the “IIP Service Utility” window opens.

■ Exiting the Service Utility

1. Click [Exit Service Utility] on the “IIP Service Utility” window.



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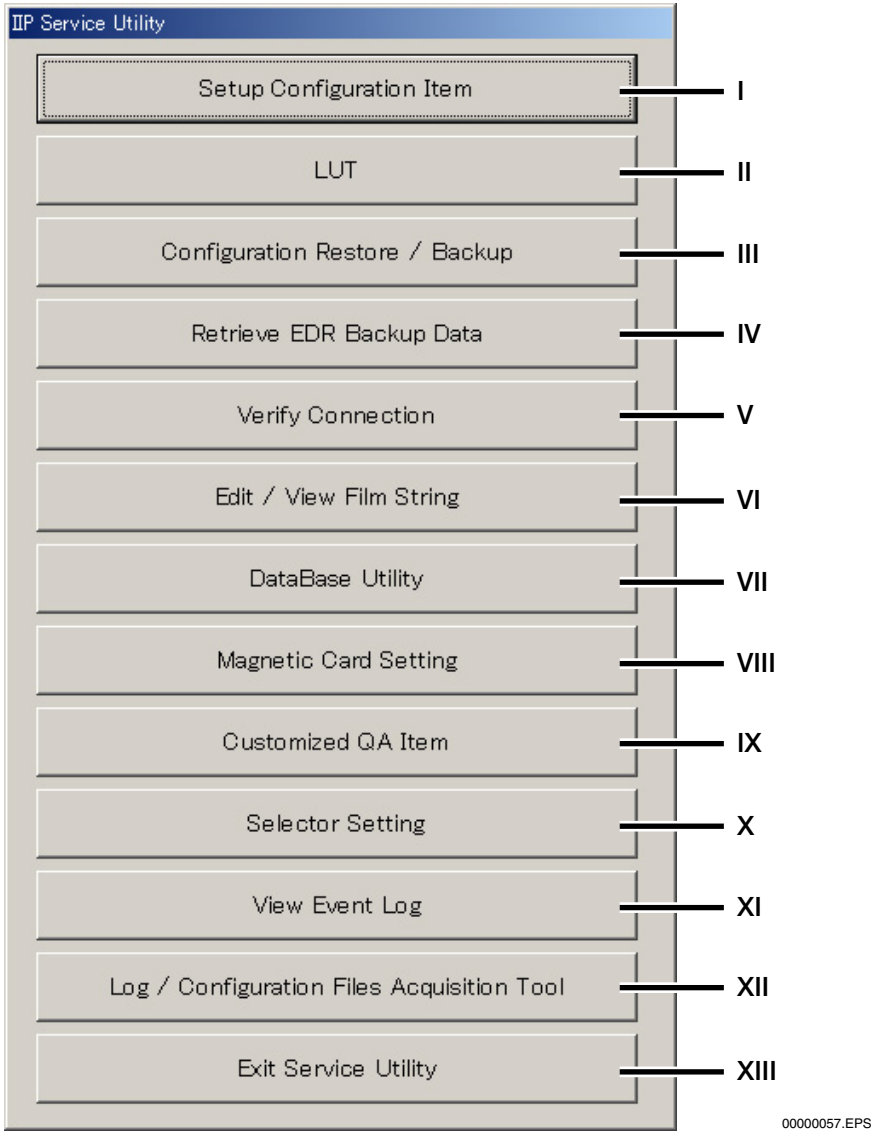
➔ The system returns to the desktop screen.

2. Overview of Service Utility Functions

When the Service Utility starts running, the following window (hereinafter referred to as the main menu) opens.



- I. Setup Configuration Item

  This menu item is used for CL system information setup, network setup, LP setup, FINP/DICOM setup, automatic distribution code setup, and other setup purposes.
  This is the most frequently used menu item for installation.

  ☞ For details of this window, see “3. Various Config Settings - Setup Configuration Item”.

➥ *REFERENCE*

Automatic distribution code setup is performed with the Service Utility. However, attribute distribution setup is performed with a user utility. Attribute distribution setup is basically performed by the user.

- II. LUT

  This menu item is used for setup of LUT file information (a file that optimizes the window display) for the display that the CL supports.

  ☞ “4. Display Optimization – LUT”

● III. Configuration Backup/Restore

This menu item is used to back up or restore CL setup data. The following files are backed up or restored.

❍ SysConfig.mdb file (A00 or later)

- System setup item
- LP setup item
- CSL setup item
- FINP setup item
- FRUP setup item
- QA process setup item

❍ NetConfig.mdb file (A00 or later)

- Connection device information table
- Connection destination setup table
- DicomPrint sorting destination setup table
- FINP compression ratio setup
- Distribution code setup

❍ PN.mdb file (A00 or later)

- PN setup item

❍ McrDataFormat.mdb file (A00 or later)

- Magnetic card format setup

❍ TagReplace.ini file (A02 or later)

- Setup for DICOM tag replacement

❍ QACustom.mdb file (A02 or later)

- Setup of display items on the QA window

❍ Selector.mdb file (A02 or later)

- Selector setup

☞ For the backup procedure, see “5. Restoring/Backing Up the Configuration File – Configuration Restore/Backup”.

☞ For the restore procedure, see “14. Restoring the CL-Config“ under “RI: Reinstalling the Software”.

● IV. Retrieve EDR Backup Data

This menu item is used to retrieve EDR image data stored in the CL and save it on an FD or the like.

☞ For the EDR data retrieval procedure, see “6. Retrieving EDR Data – Retrieve EDR Backup Data”.

➥ *REFERENCE*

The EDR data refers to data halfway through a calculation task while EDR processing is being performed. This data is used to analyze later how EDR processing was performed actually.

● V. Verify Connection

This menu item is used to verify the connection to the RU or other connected equipment. The CL offers the following connection verification functions:

- Using the PING (connected equipment host name or IP address input required) to verify the network connection to other connected equipment
- Using connected equipment’s AE name (Application Entity Name) to verify the connection to DICOM connected equipment

☞ For details of the procedure for verifying connection to other equipment, see “7. Verifying the Connection to Other Connected Equipment - Verify Connection”.

● VI. Edit/View Film String

This menu item is used to directly edit the file named “FilmStrFmt.env” file, which defines the film annotation character format. The tool named “View Film String” can also be used to confirm on-screen film annotation characters.

◆ *NOTE* ◆

The contents of the FilmStrFmt.env file are written in Unicode. Therefore, use NotePad or other Unicode-compliant text editor for editing purposes.

☞ For details of FilmStrFmt.env file editing and View Film String usage, see “3. Editing the FilmStrFmt.env File [being now prepared])“ in “Printout Function“ under “FR1: Function-specific Reference”.

- VII. DataBase Utility
  This menu item is used to initialize image database, delete (clearing off the image output queue) accumulated images from output queue and initialize patient database.

  ☞ For details of the operation procedure, see “8. Management of Various Databases - DataBase Utility”.

- VIII. Magnetic Card Setting
  This menu item is used to set the data format for magnetic cards (hospital cards) and define ISO card read character code.

  ☞ For details of the data format, see “Appendix 4. Setting the Magnetic Card“ under “IN: Installation”.

  ☞ For details of the ISO card definition, see “9. Setting the Magnetic Card – Magnetic Card Setting”.

- IX. Customized QA Item

  This menu item is used to customize information, such as kanji patient name, patient ID, date of birth, etc., relevant to patient image displayed on the QA window.

  ☞ For details of the setup procedure, see “10. Customizing QA Items – Customized QA Item”.

- X. Selector Setting

  This menu item is used for selector setup necessary when connecting a built-in IR. This function is same as that of IDT-IV selector setup.

  ☞ For details of the setup procedure, see “11. Setting the Selector – Selector Setting”.

- XI. View Event Log
  This menu item is used to launch the Event Viewer of Windos 2000. The Event Viewer allows you to confirm errors occurring in the OS or CL-AP.

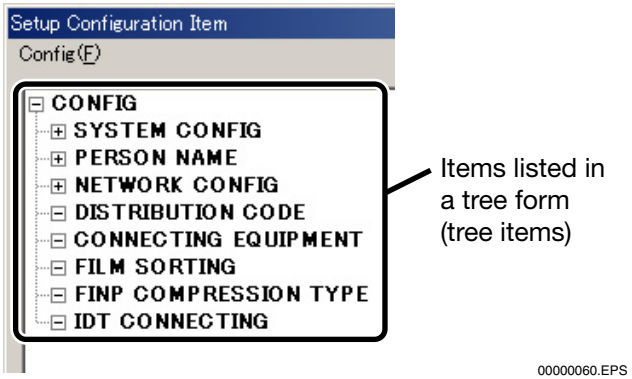
  ☞ For details of how to use the Event Viewer, see “2. Using the Event Viewer” under “MT: Machine Troubleshooting”.

- XII. Log/Config Files Acquisition Tool
  This menu item is used to compress CL log files or several setup files at a time and back them up on FDs or HD. This function is useful for looking into causes of errors that occur.

- XIII. Exit Service Utility
  This menu item is used for exiting the Service Utility mode.

3. Various Config Settings — Setup Configuration Item

When you click [Setup Configuration Item] on the main menu, the following window opens.
Various items are listed in a tree form (these items are hereinafter referred to as tree items) under “CONFIG (F)”. When you click these items, you can open windows to set detailed information for specific tree items.



The individual tree items are detailed in the following subsection.

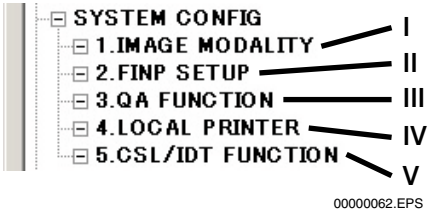
3.1 Meanings of Individual Tree Items

In the individual tree items, the following items can be set up.

- SYSTEM CONFIG
  This tree item is used to set the basic information about the CL.

  Clicking the “+” sign to the left of “SYSTEM CONFIG” displays the SYSTEM CONFIG tree items.

  The displayed items allow you to set the CL system information (I in the window illustration below), FINP basic information (II), QA functionality (III), Printout functionality (IV), and IDT or Console functionality (V).



☞ For details of “1. IMAGE MODALITY”, see “3.4 Config Details — 1. IMAGE MODALITY”.

☞ For details of “3. QA FUNCTION”, see “3.5 Config Details — 3. QA FUNCTION”.

☞ For details of “4. PRINTER”, see “2. Setups Necessary When Editing the Film Annotation Character Format” under “FR1: Function-specific Reference”.

☞ For details of “5. CSL/IDT FUNCTION”, see “3.6 Config Details — 5. CSL/IDT FUNCTION”.

- PERSON NAME

  This tree item is used to define the sequence of patient name elements and characters that delimit names.

  Clicking the “+” sign to the left of “PERSON NAME” displays the items for defining the details of PERSON NAME.

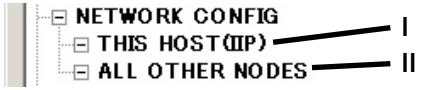
  ☞ For details on the PERSON NAME, see “3.7 Setting the Name Elements for DICOM Connection”.

- NETWORK CONFIG

  This tree item is used to set the CL/connected equipment network information and perform FINP/DICOM setup.

  Clicking the “+” sign to the left of “NETWORK CONFIG” displays the NETWORK CONFIG tree items.

  The displayed items allow you to set the CL main unit information (I in the window illustration below) and connected equipment information (II).



- DISTRIBUTION CODE

  This tree item is used to perform automatic distribution code setup so that images can be distributed automatically to a device of HD_FILE attribute.

- CONNECTING EQUIPMENT

  This tree item is used to define the connected equipment that is connected to the CL.

- FILM SORTING

  This tree item is used to define the film sorting conditions for DICOM prints.

  ☞ For details of the FILM SORTING tree item, see “3.8 DICOM Print Film Sorting Setup”.

- FINP COMPRESSION TYPE

  This tree item is used to formulate an image compression definition of each MPM code for use in image output generation with the FINP.

  Before the use of this feature, however, the image compression setting for each MPM code needs to be turned ON from “NETWORK CONFIG”.

- IDT CONNECTING

  This tree item is used to make patient information available being shared with the CR Console (CL) and IDT-IV that are on the same network.

  ☞ See “3.9 Patient Information Sharing Function Setup”.

3.2 Editing the Listed Configuration Items

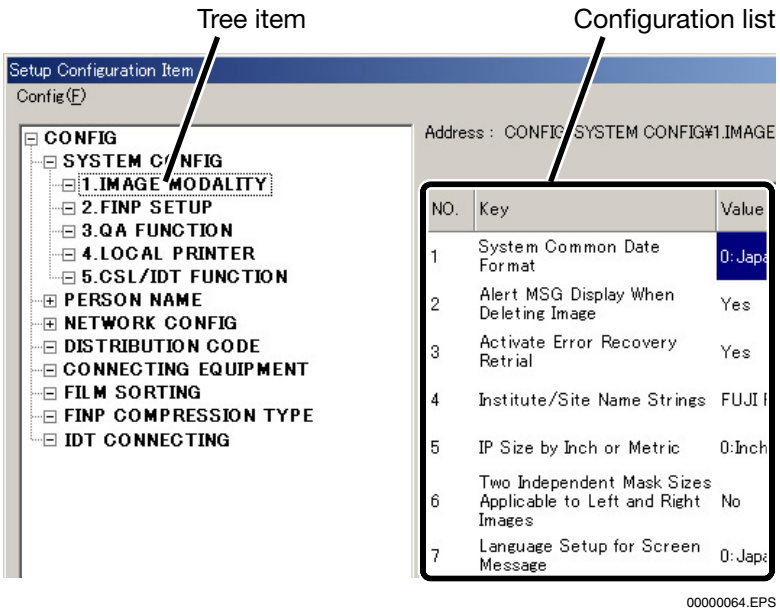
When you click a tree item in the left-hand area of the Setup Configuration Item window, a list of setup items appears in the right-hand area of the window (this list is hereinafter referred to as a configuration list).

This section explains about the procedure for editing the setup items in a configuration list.

➥ *REFERENCE*

A configuration list appears when you click the following tree items:

- *Five tree items under "SYSTEM CONFIG"*
- *PERSON NAME*



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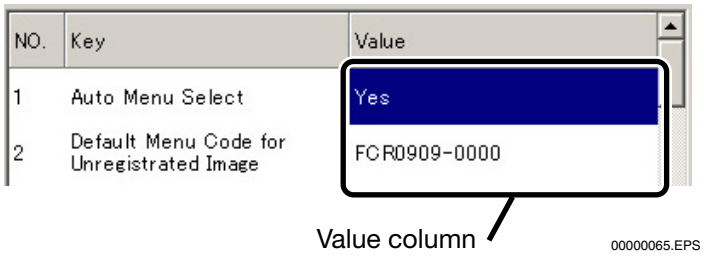
1. **Double-click the Value column to the right of a configuration item name.**



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2. **Edit a configuration item.**

- When the column you double-clicked changes to a direct input field (e.g., FUJI FILM HOSPITAL)

  I. With the mouse, select the text to be edited, and then key in new text.

- When the column you double-clicked changes to a pull-down menu (e.g., 0:Japanes date(S62.10.07))

  I. Click the downward arrow mark ( ) for the pull-down menu (e.g., 0:Japanes date(S62.10.07)), and then choose a target item from the pull-down menu.

- When the column you double-clicked changes to a field with upward and downward arrow marks (e.g., 0)

  I. Click the upward arrow mark ( ) or downward arrow mark ( ) to change the value as desired.

3.3 Saving the Configuration Data

To save the configuration data, perform either of the following procedures with the mouse or keyboard:

- Saving with the mouse

  1. **From the “Config (F)” menu, click “Save (V)”.**
     ➔ A confirmation window opens.

  2. **Click [YES].**
     ➔ The system saves the edited configuration data.

- Saving with the keyboard

  1. **Hold down the “Alt” key and press the “F” key.**
     ➔ A pull-down menu opens.

  2. **Press the “V” key.**
     ➔ A confirmation window opens.

  3. **Press the “Return” key.**
     ➔ The system saves the edited configuration data.

3.4 Config Details — 1. IMAGE MODALITY

■ IMAGE MODALITY setup items (1 to 5)

No.	Name	Selection	Meaning
1	System Common Date Format	◎ 0: Japanese date (S62.10.07) ❍ 1: ANSI long date (1987.OCT.07) ❍ 2: ANSI short date (1987.10.07) ❍ 3: American long date (OCT.07.1987) ❍ 4: American short date (0.07.1987) ❍ 5: European long date (07.OCT.1987) ❍ 6: European short date (07.10.1987	Specifying the date format to be used in medical institutions. * The date format is applicable in common to entry of the date of birth, monitor display, film output, and all other date-related representations.
2	Alert MSG Display When Deleting Image	◎ Yes After selecting [Delete], the confirmation screen for image deletion will be displayed. Pressing [OK] will delete the specified item. ❍ No After selecting [Delete], the confirmation screen for image deletion will not be displayed and the specified item deleted immediately.	Specifying whether or not to display the confirmation screen for image deletion before actually deleting an image.
3	Activate Error Recovery Retrial	◎ Yes The system continues retrial processing until the connected devices are recovered. Once recovered, it automatically continues output (including printout) of images accumulated on the output queue. ❍ No The system does not output (print) images in “standby” status unless it manually outputs (including printout) such images.	Specifying whether or not to activate retrial processing after the error occurrence.
4	Institute/Site Name Strings	A maximum of 60 one-byte character. (◎ FUJIFILM HOSPITAL)	Setting the medical institution name (in 1-byte characters). * For language setup of one-byte characters, a hospital name specified here will be printed on film. * Be sure to use 1-byte characters for entering medical institution name as they are used in the DMS system. * Make sure to enter 1-byte characters on the keyboard. * The default number of characters printed on film is 20 at a maximum.
5	IP Size by inch or Metric	◎ 0:Inch Displays 14"×14" and 14"×17" images in the inch system. ❍ 1:Metric Displays 14"×14" and 14"×17" images in the metric system.	Specifying the IP size. * Specify the IP size considering the cassette size available on the RU side.

◎: Default setting, ⋆: Note

■ IMAGE MODALITY setup items (6 to 12)

No.	Name	Selection	Meaning
6	Two independent Mask Sizes Applicable to Left and Right images	❍ Yes Sets independent RN for the right and left images. (Hipmnrl.prm is used.) ◎ No Sets the same RN for the right and left images. (Hipmenu.prm is used.)	Specifying whether or not to set up frequency processing RN independently for the right and left images on the double-image output.
7	Language Setup for Screen Message	❍ 0 : Japanese ◎ 1 : English ❍ 2 : German ❍ 3 : French ❍ 4 : Spanish ❍ 5 : Italian ❍ 6 : Swedish ❍ 7 : Finnish ❍ 8 : Danish ❍ 9 : Norwegian ❍ 10 : Korean	Specifying the language used. * There is no need to change in the Japanese version. Change the setting as necessary for the languages other than Japanese.
8	Insitute/Site Name in Two-Byte Characters	A maximum of 15 two-byte characters. (◎ 富士フイルム病院)	Specifying the kanji medical institution name. * For language setup of two-byte characters, a hospital name specified here will be printed on film. * Be sure to enter two-byte characters on the keyboard. (Using the <Alt>+< 全角/半角 > keys, the character entry mode can be made available for entering two byte characters.) * The default number of characters printed on film is 15 at a maximum.
9	UID Issuance after Modifying ID Information	❍ Yes Issues new image UID and SOP Instance UID. ◎ No Does not issue new image UID and SOP Instance UID.	Specifying whether or not to issue new image UID and SOP Instance UID when modifying the patient, study, series or image information. * Select “Yes” if you wish to identify images for each modification.
10	UID Issuance after Modifying Normalized Parameter	◎ Yes Issues new image UID and SOP Instance UID. ❍ No Does not issue new image UID and SOP Instance UID.	Specifying whether or not to issue new image UID and SOP Instance UID when modifying the conditions for normalization. * Select “Yes” if you wish to identify images for each modification.
11	UID Issuance after Modifying Image Processing Parameter	❍ Yes Issues new image UID and SOP Instance UID. ◎ No Does not issue new image UID and SOP Instance UID.	Specifying whether or not to issue new image UID and SOP Instance UID when modifying image processing parameters. * Select “Yes” if you wish to identify images for each modification.
12	UID Issuance Before Sending Processed Data	◎ Yes Issues new image UID and SOP Instance UID. ❍ No Does not issue new image UID and SOP Instance UID.	Specifying whether or not to issue new image UID and SOP Instance UID when outputting processed images.

◎: Default setting, ⋆: Note

■ IMAGE MODALITY setup items (13 to 17)

No.	Name	Selection	Meaning
13	DICOM Series Generation Logic	◎ 0: 1 Study - N series and 1 Series - 1 image Issues a number so that it has multiple series for one study and only one image for one series. ❍ 1: 1 Study - N series and 1 Series - M image Issues a number so that it has multiple series for one study and multiple images for one series. ❍ 2: 1 Study - 1 series and 1 Series - N image Issues a number so that it has only one series for one study and multiple images for one series.	Specifying the series generation logic. <Ref.> "■ Detailed explanations"
14	System Recognition ID (A to Z)	A_Z(◎A)	Setting the system ID. * Reflected on the image attributes and used for automatic study number generation. * Be sure to enter one-byte characters on the keyboard. * The system ID set up on the RU config (referred to as the image ID on the RU) will be printed on film.
15	User Utility Password Required or Not	❍ Yes Password entry is required (the password is 1111.) It is possible to enter the exposure menu parameter batch update menu with password 111111. ◎ No No password entry is required.	Specifying if password entry is required when entering the user utility mode.
16	SOP Class UID for PPS When No FILE Attribute Output	◎ 1.2.840.10008.5.1.4.1.1.1 ❍ 1.2.392.200036.9125.1.1.2	Specifying an SOP Class UID that is sent back to PPS when no other connected hosts are set up as the destinations for FILE attribute image output (for example, when a QA-WS is connected as a connected host). * Use the same UID as that used by the HI-C655 for FILE attribute output.
17	Protocol Name for PPS	◎ 0: Function Code Sets up a Code (function codes such as RT, TS, ES, etc). ❍ 1: ANK Menu Name Sets up a Menu Name (exposure menu).	Specifying a value used for setup of the "Protocol Name" for PPS.

◎: Default setting, ⋆: Note

■ IMAGE MODALITY setup items (18 to 25)

No.	Name	Selection	Meaning
18	Display Performed Procedure on Worklist Tab	❍ Yes ◎ No	Specifying whether or not to display an already performed study in the CL work list. For a study already performed, specifying NO will hide it even if its related information is sent from MWM.
19	Kind of Output Image (Energy Subtraction)	◎ 0: L, H, B, S ❍ 1: L, B, S ❍ 2: L, S ❍ 3: L, B ❍ 4: L, H L: Low-pressure image H: High-pressure image B: Bone image S: Soft tissue image	Specifying the combination of kinds of images to be transferred to other connected host.
20	Send 3 on 1 Format to External Device	❍ 0: Yes Transmits Images. ◎ 1: No Does not transmit images.	Specifying whether or not to transfer 3on1-format images to an externally connected host.
21	Connection Between Reader and Console	◎ 0: 1-1 1-to-1 connection ❍ 1: N-N N-to-N connection	Specifying whether the 1-to-1 or N-to-N connection is to be established for the CL and RU.
22	Long Type Character Format	❍ Yes Decreases the font sizes to increase the number of displayable characters. ◎ No Does not increase the number of displayable characters.	Specifying the font sizes of the ID number and other items for CRT display and film annotation character printing.
23	Tag Mapped on Study Menu at MWM Use	◎ 0040, 0100>0040, 0007	DICOM-defined tag numbers to be mapped onto a study menu for MWM use. * Be sure to enter one-byte characters on the keyboard.
24	Perform Mapping to Exposure Menu at MWM Use	◎ Yes Performs mapping. ❍ No Does not perform mapping.	Specifying whether or not to perform mapping for study and exposure menus during MWM use. If “No” is selected, only the patient information will be used to initiate a study process (the exposure menu or other data will not be transmitted).
25	Display Dialog When Failed in Mapping to Menu at MWM Use	◎ Yes Opens a warning window. ❍ No Does not open a warning window.	Specifying whether or not to open a warning window when mapping is not successfully performed for a CL study menu or exposure menu during MWM use.

◎: Default setting, ⁎: Note

■ IMAGE MODALITY setup items (26 to 29)

No.	Name	Selection	Meaning
26	Use StudyInstanceUID from RIS	◎ Yes Uses the Study Instance UID sent from the RIS. ❍ No Does not use the Study Instance UID sent from the RIS.	Specifying whether or not to use the Study Instance UID that is transmitted from the RIS.
27	StudyInstanceUID Generation Logic	❍ Type1 <company name>.2.1.<study number> ❍ Type2 <company name>.2.2<study date><modality>. <study number> ❍ Type3 <company name>.2.3.<study date><modality>. <study ID> ❍ Type4 <company name>.2.4.<study date>.<study ID>. <requesting department> ❍ Type5 <company name>.2.5.<order number> ❍ Type6 <company name>.2.6.<study date>.<order number> ❍ Type7 <company name>.2.<MAC address>.<TimeStamp>. <machine-dependent ID number>	Study Instance UID number issue type for CL internal number issuance. * If the order number does not exist or the Study Instance UID is longer than specified, the system automatically uses Type7.
28	Dicom Storage Output Connection Number	1 to 4 (◎3)	Number of connections simultaneously available for Dicom Storage output generation.
29	Image Number Generation Logic	◎ 0:System ID+Serial Number Attaches a machine shipment control number. ❍ 1:Serial Number Does not attach a machine shipment control number.	Specifying whether or not to attach a machine shipment control number to the beginning of the Image Number.

◎: Default setting, *: Note

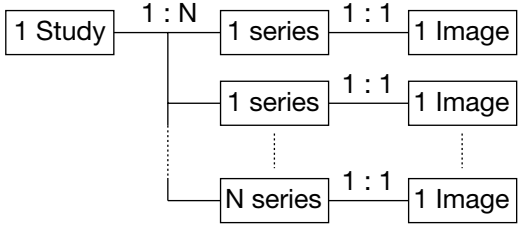
■ Detailed explanations

● "13. DICOM Series Generation Logic"

In relation to the DICOM Series Generation Logic, the following supplements explain the logic of series numbering subsequent to image a cquisition from the RU.

- **0: 1 Study-N series and 1 series-1 Image**

  Performs numbering in such a manner that each study has more than one series and that each series has only one image.



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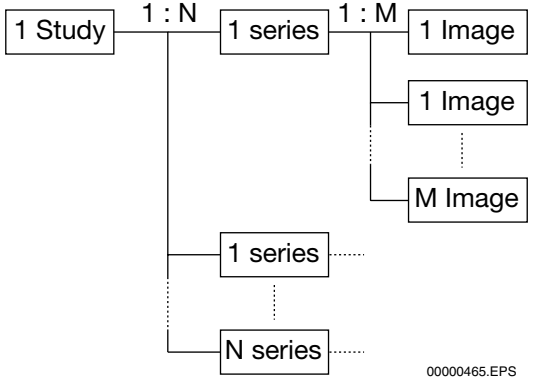
- **1: 1 Study-N series and 1 series-M Image**

  Performs numbering in such a manner that each study has more than one series and that each series has two or more images.



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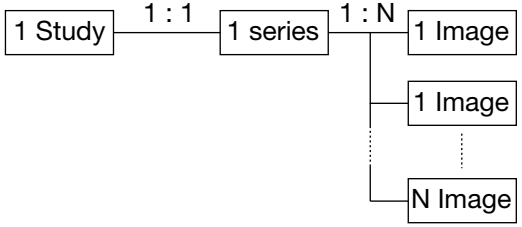
- **2: 1 Study-1 series and 1 series-N Image**

  Performs numbering in such a manner that each study has only one series and that each series has two or more images.



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3.5 Config Details — 3. QA FUNCTION

No.	Name	Selection	Meaning
1	Enable Image Proc. Pram Update Flag	❍ Yes Reflects updated image processing parameters upon flag. ◎ No Does not reflect updated image processing parameters upon flag.	Enabling updated image processing parameter flag.
2	Enable E-mail Butten	❍ Yes Used. ◎ No Not used.	Specifying whether or not to use the image transfer function via E-mail and the simplified image storage function.
3	Use Dialog for Choosing Folder to Save Jpeg Image	❍ No Does not open. ◎ Yes Opens.	Specifying whether or not to open a dialog box for specifying the destination directory when you save an image with the simplified image storage function.

◎: Default setting, ⋆: Note

3.6 Config Details — 5. CSL/IDT FUNCTION

■ CSL/IDT FUNCTION setup items (1 to 7)

No.	Name	Selection	Meaning
1	AutoMenuSelect	❍ No From exposure list menus of unread images, manually selects exposure menus of the image to be read the next. ◎ Yes When an image is received from the RU, automatically moves onto the next exposure menu item (at the bottom on the screen).	Specifying whether or not to automatically move onto the next exposure menu item (at the bottom on the screen) when multiple exposure menus are registered.
2	Default Expansion Menu Code for Unregistered Image	A maximum of 16 one-byte characters. (◎FCR0909-0000)	Setting the extension menu code of the exposure menu to be used as the default when it is unregistered. * This item can also be set up using the User Utility function. The item set up the last will be valid. * Make sure to enter one-byte characters on the keyboard.
3	Enable Distribution Code	◎ No The distribution code is not used. ❍ Yes The distribution code is used.	Specifying if the distribution code is used when changing exposure menu parameters.
4	Enable Film String	◎ No The film mark is not used. ❍ Yes The film mark is used.	Specifying if the film annotation characters are used when changing exposure menu parameters.
5	Enable Function Setup	◎ No The function setup is not used. ❍ Yes The function setup is used.	Specifying if the function setup is used when changing exposure menu parameters.
6	Enable Pantomography Processing	◎ No The pantomography is not used. ❍ Yes The pantomography is used to isolate an image if it is in 24×30cm (10"×12") size and a pantomography menu (MPMcode 20×4) is used.	Specifying if the pantomography (processing used to isolate a 15×30cm image from a 24×30cm (10"×12") image) is used.
7	Enable Performance Data (RIS)	❍ No The performance data is disabled. ◎ Yes The performance data is enabled.	Specifying whether the result information (film size and split exposure count) can be defined from the CL menu parameter edit dialog box at the time of ordering from the RIS.

◎: Default setting, *: Note

■ CSL/IDT FUNCTION setup items [continued] (8 to 12)

No.	Name	Selection	Meaning
8	Enable Automatic Selector Switching	◎ No Not used. ❍ Yes Used.	Specifying if the automatic selector changeover function is used.
9	Enable Requesting Dept. Name Field	❍ No The requesting department name field is not displayed. ◎ Yes The requesting department name field is displayed.	Specifying if the requesting department name field is displayed on the patient information entry screen.
10	Enable Technologist Name Field	❍ No The technologist name field is not displayed. ◎ Yes The technologist name field is displayed.	Specifying if the technologist name field is displayed on the patient information entry screen.
11	Image Rotation/Reversal Range	◎ 0: L-R reversal ❍ 1: T-B reversal ❍ 2: L-R,T-B reversal ❍ 3: L-R reversal / 90-deg,Rotation ❍ 4: L-R,T-B reversal / 90-deg,Rotation Selects a combination of L-R, T-B, 90-deg or Rotation from among 0 to 4. L-R: Right and left rotation, T-B: Top and bottom rotation, 90-deg, Rotation: 90° reversal	Specifying the range available for selection of image rotation and reversal when changing exposure menu parameters.
12	EDR Mode Setup	◎ 0: AUTO/SEMI/FIX ❍ 1: AUTO/SEMI/FIX/SEMI-X Selects a combination of AUTO, SEMI, FIX or SEMI-X from 0 and 1. AUTO: Automatically calculates both the S and L values based on the image. SEMI: The L value is fixed. Automatically calculates the S value as per determined process. FIX: The L value is fixed. The S value is the default or manually entered. SEMI-X: The L value is fixed. Automatically calculates the S value as per determined process. Manually enters area for calculation and output density.	Specifying the range available for selection of EDR mode when changing exposure menu parameters.

◎: Default setting, ⁎: Note

■ CSL/IDT FUNCTION setup items [continued] (13 to 16)

No.	Name	Selection	Meaning
13	Image Data Filing Mode Setup	◎ 0:OFF/ON ❍ 1:OFF/ON/ON* Selects a combination of OFF, ON or ON* from 0 and 1. OFF : Not to filing to the OD device. ON : Filing to the OD device. ON* : Filing of an HQ image to the OD device after converting it to a normal density image.	Specifying the range available for selection of filing mode when changing exposure menu parameters.
14	Function Setup	RT,TS,ES,WS,PS,TM,TX,EX,WX (◎ RT,TS,ES,WS,PS,TM) RT: Routine processing (routine exposure) TS: Temporal subtraction processing ES: Energy subtraction processing WS: Whole spine processing PS: IVP processing TM: Tomographic processing TX: Batch temporal subtraction processing EX: Batch energy subtraction processing WX: Batch whole spine processing	Specifying functions that can be selected when changing exposure menu parameters. * Enumerate functions demarcating them using one-byte commas in between. * Be sure to enter one-byte characters on the keyboard.
15	Examination No. Length	1–16(◎10)	Setting the examination No. length (1 to 16). * Set 6 or larger when 1 is set for “29. Study Number Issuance Logic Setup” and 14 or larger when 2 is set for it. * Be sure to enter one-byte characters on the keyboard. * This function also specifies the number of characters printed on film.
16	Examination No. Padding Method	◎ 0: Pad with space to the head(1234567) Right-padded with spaces to the head. ❍ 1: Pad with zero to the head (0001234567) Right-padded with zeros to the head. ❍ 2: Pad with space to the tail(1234567) Left-padded with spaces to the tail. ❍ 3: Pad with zero to the tail (1234567000) Left-padded with zeros to the tail.	Specifying the examination No. padding method. * This function also specifies right/left justification of character strings printed on film.

◎: Default setting, ⋆: Note

■ CSL/IDT FUNCTION setup items [continued] (17 to 22)

No.	Name	Selection	Meaning
17	Patient ID Length	1–64 (◎10)	Setting the patient ID length. * Be sure to enter one-byte characters on the keyboard. * This function also specifies the number of characters printed on film.
18	Patient ID Padding Method	◎ 0: Pad with space to the head(1234567) Right-padded with spaces to the head. ❍ 1: Pad with zero to the head (0001234567) Right-padded with zeros to the head. ❍ 2: Pad with space to the tail(1234567) Left-padded with spaces to the tail. ❍ 3: Pad with zero to the tail (1234567000) Left-padded with zeros to the tail.	Specifying the patient ID padding method. * This function also specifies right/left justification of character strings printed on film.
19	Reception No. Length	1–16 (◎5)	Setting the reception No. length. * Use this setting for Type B ID Online connection. * Be sure to enter one-byte characters on the keyboard.
20	Reception No.Padding Method	◎ 0: Pad with space to the head(1234567) Right-padded with spaces to the head. ❍ 1: Pad with zero to the head (0001234567) Right-padded with zeros to the head. ❍ 2: Pad with space to the tail(1234567) Left-padded with spaces to the tail. ❍ 3: Pad with zero to the tail (1234567000) Left-padded with zeros to the tail.	Specifying the reception No. padding method. * Use this setting for Type B ID Online connection.
21	Exposure List Erasure Setup	◎ No Does not erase. ❍ Yes Erases.	Specifying whether or not to erase the preset exposure list when entering new patient information on the examination and examination reservation screens. * This item can also be set up using the User Utility function. The item set up the last will be valid.
22	Requesting Dept. Name Field Setup	◎ 0: Code Displays the requesting department code. ❍ 1: NameSbcs Displays the requesting department name in alphanumerics. ❍ 2: NameDbcs Displays the requesting department name in kanji.	Setting the content of the menu to be displayed in the requesting department name field.

◎: Default setting, ⁎: Note

■ CSL/IDT FUNCTION setup items [continued] (23 to 28)

No.	Name	Selection	Meaning
23	Technician's Name Field Setup	◎ 0: Code Displays the technician's code. ❍ 1: NameSbcs Displays the technician's name in alphanumerics. ❍ 2: NameDbcs Displays the technician's name in kanji.	Setting the content of the menu to be displayed in the technician's name field.
24	Min.Set Number	1–ZZ (◎1)	Setting the minimum value for the function processing setup No. * Enter a value smaller than that specified in "25. Max. Set Number" below. * Be sure to enter one-byte characters on the keyboard.
25	Max.Set Number	1–ZZ (◎9Z)	Setting the maximum value for the function processing setup No. * Enter a value larger than that specified in "24. Min. Set Number" above. * Be sure to enter one-byte characters on the keyboard.
26	MCR Customized Card	◎ No The hospital card is not used. ❍ Yes The hospital card is used.	Specifying whether or not to use the hospital card. ☞ For details of setup, see Installation "Appendix 6 Setting Up the Magnetic Card Reader [Option]" under "IN: Installation".
27	MCR Card Type (JIS/ISO)	0: JIS 1: ISO	Specifying the magnetic card type. ☞ For details of setup, see Installation "Appendix 6 Setting Up the Magnetic Card Reader [Option]" under "IN: Installation".
28	MCR Card Format Setup	0: FUJI (JIS type, ISO type) 1: FJ01(JIS type) 2: FJ02(JIS type) 3: FJ03(JIS type) 4: FJ04(JIS type) 5: FJ05(JIS type) 6: FJ51(ISO type)	Specifying the magnetic card format setup type. ☞ For details of setup, see Installation "Appendix 6 Setting Up the Magnetic Card Reader [Option]" under "IN: Installation".

◎: Default setting, ⁎: Note

■ CSL/IDT FUNCTION setup items [continued] (29 to 37)

No.	Name	Selection	Meaning
29	Study Number Issuance Logic Setup	◎ 0: OFF ❍ 1: <System Id+Auto Increment> ❍ 2: <Date+System Id+Auto Increment> System ID: Converts A to 1, ... and Z to 26. Date: Converts in the form of yyyymmdd (year, month, day). Auto Increment: Starts with the initial value counted to be 0001 and the count is reset to the initial value if it extends over the two consecutive years.	Specifying the logic available for automatic study number (0021, 2F20) issuance mode. * Verify the setting made in “15. Examination No. length.” Make sure that 6 or larger is set when “1” has been selected and 14 or larger, when “2” has been selected. * (0021, 2F20) are the study number tag.
30	Technician's Code Length	1–2 (◎2)	Setting the technician’s code length. *Be sure to enter one-byte characters on the keyboard.
31	ID Online Acquisition Info. Code Setup	◎ 0: CP850 (DOS Latin 1) ❍ 1: CP1252 (Win Latin 1)	Specifies the code set for use in ID Online connection. ☞ For detailed code set descriptions, see “■ Detailed explanations”.
32	ID Online Serial Port No.	Enter a numerical value in accordance with the PSI board channel. (If you do not use the ID online serial port, enter "0".) (◎0)	Specifies the ID Online serial port.
33	ID Online Interface Format	◎ 0: Short ❍ 1: Long (to be selected when an extended format is in use)	Specifies the ID Online interface format.
34	ID Online/Offline Switching Timeout	Enter a numerical value (use the default setting under normal conditions). (◎10)	Specifies the online/offline switching timeout value.
35	ID Online Requesting Timeout	Enter a numerical value (use the default setting under normal conditions). (◎30)	Specifies the timeout value for information inquiry at the RIS.
36	ID Online Search Key	◎ 0: ID# ❍ 1: ID#&RECEPT# ❍ 2: ID#&EXAM# ❍ 3: ID#&RECEPT#&EXAM# A combination of patient ID number, reception number, and examination number is to be used as a search key. ID# : Patient ID number RECEPT# : Reception number EXAM# : Examination number	Specifies the type of ID Online search key.
37	ID Online Type	◎ 0: Type-A The RIS transmits information. ❍ 1: Type-B ❍ 2: Type-IDC4 The CL uses a search key to make inquiries at the RIS for the purpose of acquiring patient information.	Specifies the ID Online interface type.

◎: Default setting, ⁎: Note

■ CSL/IDT FUNCTION setup items [continued] (38 to 47)

No.	Name	Selection	Meaning
38	Host Name of RIS Server (Type-IDC4)	◎ One-byte character (◎ idc4)	IDC4 host name when using the ID Online function for IDC4. * Be sure to enter one-byte characters on the keyboard.
39	IP Address of RIS Server (Type-IDC4)	◎ 172.16.1.1	IDC4 IP address when using the ID Online function for IDC4. * Be sure to enter one-byte characters on the keyboard.
40	Port Number for RIS Server (Type-IDC4)	Enter a numerical value in accordance with the RIS port number. (◎13001)	IDC4 port number when using the ID Online function for IDC4. * Be sure to enter one-byte characters on the keyboard.
41	RIS Type Setup	❍ 1: S1 (NEC-Type1) NEC (for TYPE-I) ◎ 2: S2 (NEC-Type2) NEC (for TYPE II) ❍ 3: S3 (Fujitsu/Hitachi) For Fujitsu/Hitachi	RIS type when ordering (serial connection only) is intended. * Serially connected ordering is available only for version A04 or later.
42	Wait Time for Performed Exposure Info. from Xcon	1 to 30 (Basically not changed.) (◎3)	Specifying the wait time (in seconds) between the instant at which the ID information acquisition request is received from the built-in type machine and the instant at which the XCON exposure result information is received in situations where exposures are made by the built-in type machine with the XCON connection established.
43	Xcon Status Display Strings	◎ XCON	Image display caption when the XCON is connected.
44	Xcon Serial_TX Control Port	Enter a numerical value in accordance with the PSI board channel. (Enter the value 0 if the control port is not used.) (◎0)	Performing XCON control serial port setup * Be sure to enter one-byte characters on the keyboard.
45	Xcon Performed Info. Reception	❍ No Does not receive operating conditions. ◎ Yes Receives operating conditions.	Specifying whether or not to receive operating condition data.
46	Xcon Exposure Info. Transfer	❍ No Does not transfer exposure conditions. ◎ Yes Transfers exposure conditions.	Specifying whether or not to transfer exposure condition data.
47	Xcon Exposure Info. Limit Value (Minimum KVP [kv])	◎ 28	Minimum tube voltage.

◎: Default setting, *: Note

■ CSL/IDT FUNCTION setup items [continued] (48 to 59)

No.	Name	Selection	Meaning
48	Xcon Exposure Info. Limit Value (Maximum KVP [kv])	◎ 110	Maximum tube voltage.
49	Xcon Exposure Info. Limit Value (Minimum X-ray Tube Current [mA])	◎ 9	Minimum tube current.
50	Xcon Exposure Info. Limit Value (Maximum X-ray Tube Current [mA])	◎ 400	Maximum tube current.
51	Xcon Exposure Info. Limit Value (Minimum Exposure Time [msec])	◎ 10	Minimum irradiation time.
52	Xcon Exposure Info. Limit Value (Maximum Exposure Time [msec])	◎ 5400	Maximum irradiation time.
53	Distribution Code for FCR5000 Series	◎ 5000-IIP	Distribution code used for receiving images from the FCR5000 series. * Be sure to enter a maximum of eight one-byte characters on the keyboard.
54	Enable Patient Info. DB Function	❍ No Does not use the patient database function. ◎ Yes Uses the patient database function.	Specifying whether or not to use the patient database function.
55	Max. Number of Patient Info.	◎ 5000	Maximum number of patients that can be recorded to the patient database.
56	Patient's Name Format	◎ 0: Sbcs (one-byte code) ❍ 1: Dbcs (two-byte code) ❍ 2: Sbcs+Dbcs (both one- and two-byte codes are used.)	Patient name format available for general practitioner interface.
57	Enable Customaize Function of Stugy List and Patient Info. ListDB Function	❍ No ◎ Yes	Performing setup concerning the specifications for industrial-use materials. Selecting "No" disables the study list customization and patient database list customization functions.
58	IP Info. Request Timeout (Reader:CSL=N:N)	1 to 60 (basically not changed.) (◎60)	Timeout value that prevails in the CL when the RU conducts an IP information search while the RU-CL N:N connections established.
59	Replace ALL IP Size When Receive Size Change Request from Builtin	◎ No Does not change. ❍ Yes Changes.	Specifying whether the CL applies a specified image size change to unexposed menu items in the study list upon receipt of an exposure image size change notification from the built-in type machine in situations where the RIS is connected.

◎: Default setting, ⁎: Note

■ Detailed explanations

● “30. ID Online Acquisition Info. Code Setup”

• CP850 : DOS Latin1

80	81	82	83	84	85	86	87	88	89	8A	8B	8C	8D	8E	8F
Ç	ü	é	â	ä	à	å	ç	ê	ë	è	ï	î	ì	Ä	Å
90	91	92	93	94	95	96	97	98	99	9A	9B	9C	9D	9E	9F
É	æ	Æ	ô	ö	ò	û	ù	ÿ	Ö	Ü	ø	£	Ø	×	ƒ
A0	A1	A2	A3	A4	A5	A6	A7	A8	A9	AA	AB	AC	AD	AE	AF
á	í	ó	ú	ñ	Ñ	ª	º	¿	®	¬	½	¼	¡	«	»
B0	B1	B2	B3	B4	B5	B6	B7	B8	B9	BA	BB	BC	BD	BE	BF
░	▒	▓	│	┤	Á	Â	À	©	╣	║	╗	╝	¢	¥	┐
C0	C1	C2	C3	C4	C5	C6	C7	C8	C9	CA	CB	CC	CD	CE	CF
└	┴	┬	├	─	┼	ã	Ã	╚	╔	╩	╦	╠	═	╬	¤
D0	D1	D2	D3	D4	D5	D6	D7	D8	D9	DA	DB	DC	DD	DE	DF
ð	Ð	Ê	Ë	È	ı	Í	Î	Ï	┘	┌	█	▄	¦	Ì	▀
E0	E1	E2	E3	E4	E5	E6	E7	E8	E9	EA	EB	EC	ED	EE	EF
Ó	ß	Ô	Ò	õ	Õ	µ	þ	Þ	Ú	Û	Ù	ý	Ý	¯	´
F0	F1	F2	F3	F4	F5	F6	F7	F8	F9	FA	FB	FC	FD	FE	FF
	±	‗	¾	¶	§	÷	¸	°	¨	·	¹	³	²	■	

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• CP1252 : Win Latin1

80	81	82	83	84	85	86	87	88	89	8A	8B	8C	8D	8E	8F
€		‚	ƒ	„	…	†	‡	ˆ	‰	Š	‹	Œ		Ž	
90	91	92	93	94	95	96	97	98	99	9A	9B	9C	9D	9E	9F
	‘	’	“	”	•	–	—	˜	™	š	›	œ		ž	Ÿ
A0	A1	A2	A3	A4	A5	A6	A7	A8	A9	AA	AB	AC	AD	AE	AF
	¡	¢	£	¤	¥	¦	§	¨	©	ª	«	¬		®	¯
B0	B1	B2	B3	B4	B5	B6	B7	B8	B9	BA	BB	BC	BD	BE	BF
°	±	²	³	´	µ	¶	·	¸	¹	º	»	¼	½	¾	¿
C0	C1	C2	C3	C4	C5	C6	C7	C8	C9	CA	CB	CC	CD	CE	CF
À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
D0	D1	D2	D3	D4	D5	D6	D7	D8	D9	DA	DB	DC	DD	DE	DF
Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß
E0	E1	E2	E3	E4	E5	E6	E7	E8	E9	EA	EB	EC	ED	EE	EF
à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
F0	F1	F2	F3	F4	F5	F6	F7	F8	F9	FA	FB	FC	FD	FE	FF
ð	ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ

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3.7 Setting the Name Elements for DICOM Connection

This appendix explains about the procedure for changing the name element sequence and delimiter.

At some institutions, a patient name is displayed on the monitor by changing the sequence of its elements. For example, the name “Fuji Taro” may be displayed as “Taro Fuji” (with the given name and family name positions interchanged).

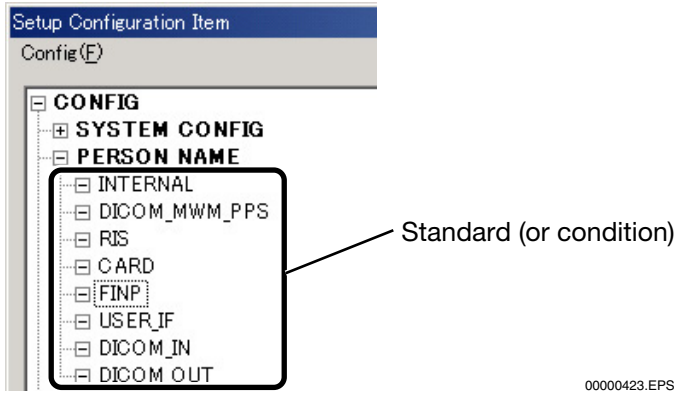
The DICOM protocol stipulates only one sequence of name elements. Therefore, it is necessary to define the relationship between the name element sequence stipulated by standards (or conditions) other than DICOM and the name element sequence stipulated by DICOM.

1. Start the Service Utility of the CL.

2. Click Setup Configuration Item.

3. Click the ⊞ sign within ⊞ PERSONNAME.

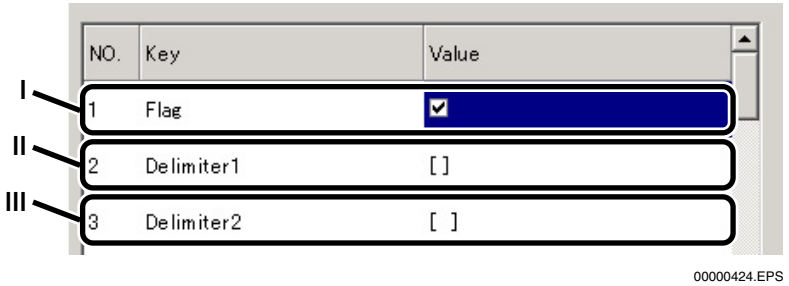
4. Select a standard (condition) (e.g., FINP).



➤ IMPORTANT

Do not change the settings for “DICOM_MWM”, “DICOM_IN”, or “DICOM_OUT”.

5. Perform the setup steps indicated below:



I. To validate this standard (condition) change, check it (☐ ➔ ☑).

II. Enter a delimiter between name elements.

◆ NOTE ◆

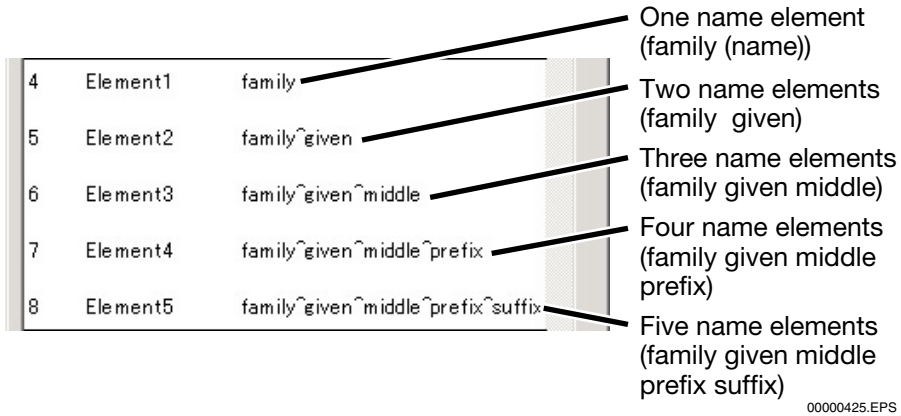
Any one-byte character can be used as a delimiter. However, a space ( ), hyphen (-), comma (,), or period (.) should normally be used.

III. Enter a delimiter between name elements.

◆ NOTE ◆

Any one- or two-byte character can be used as a delimiter. However, a two-byte space ( ) or hyphen (-) should normally be used.

6. **Change the name elements.**


4 Element1 family
5 Element2 family^given
6 Element3 family^given^middle
7 Element4 family^given^middle^prefix
8 Element5 family^given^middle^prefix^suffix
One name element (family (name))
Two name elements (family given)
Three name elements (family given middle)
Four name elements (family given middle prefix)
Five name elements (family given middle prefix suffix)
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7. **With the “Config (F)” menu, save the setup data.**

3.8 DICOM Print Film Sorting Setup

//Being now prepared.//

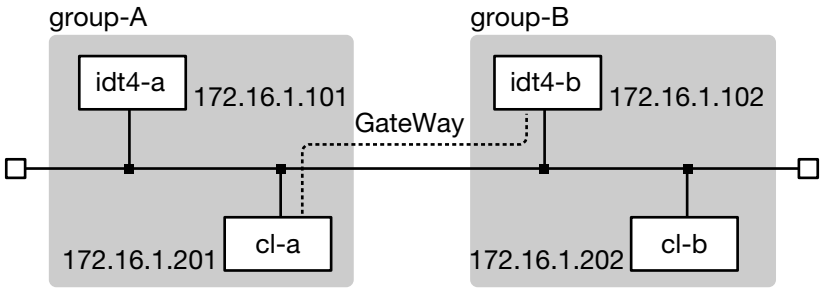
3.9 Patient Information Sharing Function Setup

The patient information sharing function is exercised to share the patient information between two or more CL and IDT-IV units existing in the same network.

In compliance with an ID inquiry (IP barcode) coming from the Image Reader, the relevant CL will acquire requested ID information from any IDT-IV or CL even when that CL has no such information.

When the IDT-IV and CL units are interconnected as shown below, the patient information sharing function is set up to enable the units (e.g., idt4-a and cl-a) to share the patient information.

◆Connection example



00000549.EPS

The setup procedure is described below:

1. Start the CL's Service Utility.

2. Click [Setup Configuration Item].

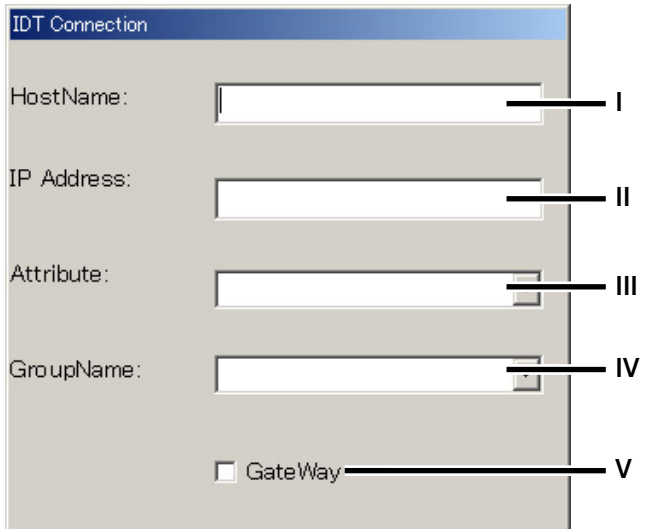
3. Click ⊟ IDT CONNECTING.

➔ The right-hand area of the window changes to the "CONFIG\IDT CONNECTING" window.

4. Click New.

➔ The "IDT Connection" window opens.

5. Enter settings as directed below:



00000555.EPS

I. Enter the host name.

II. Enter the IP address.

III. Select a machine attribute.

IV. Specify the group name.

◆ ***NOTE*** ◆

When you specify the group name for the first time, the GroupName field contains no entry. Therefore, enter a group name from the keyboard.

V. When you define the machine as a gateway, check ☐ GateWay.

◆ ***NOTE*** ◆

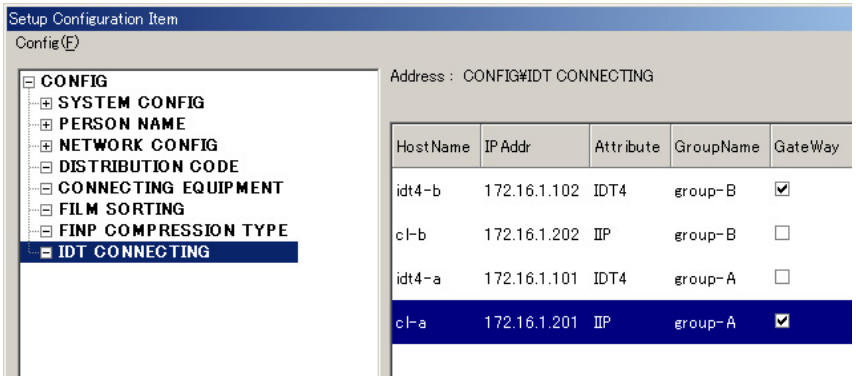
When the patient information is to be shared by groups, it is necessary to define one unit of each group as the gateway (check ☐ GateWay).

6. Click OK.

7. **To set up another machine, repeat steps 4. through 6.**

8. **With the “Config (F)” menu, save the setup data.**

The window shown below indicates the results that are obtained when the equipment is set up as indicated in the connection example at the beginning of this section.



00000556.EPS

4. Display Optimization — LUT

Install an LUT file that matches the display characteristics.

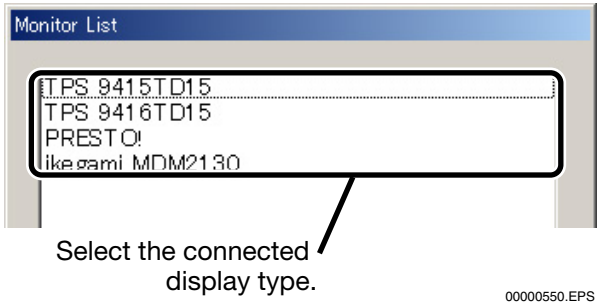
1. **Start the CL's Service Utility.**

2. **Click [LUT].**

➔ The "Monitor List" window opens.

3. **Select the connected display and then click** OK **.**

- TPS 9415 TD15 : 15" LCD monitor with a touch panel (model TPS9415TD15)
- TPS 9416 TD15 : 15" LCD monitor with a touch panel (model TPS9416TD15)
- PRESTO! : Super Resolution LCD Monitor SL-IC300
- ikegami MDM2130: Ikegami monitor (not used)



➔ The selected display is then optimized (the contents of the LUT file in the "LUT" folder overwrites those of the "ctrlutl.env" file in the "Config" folder).

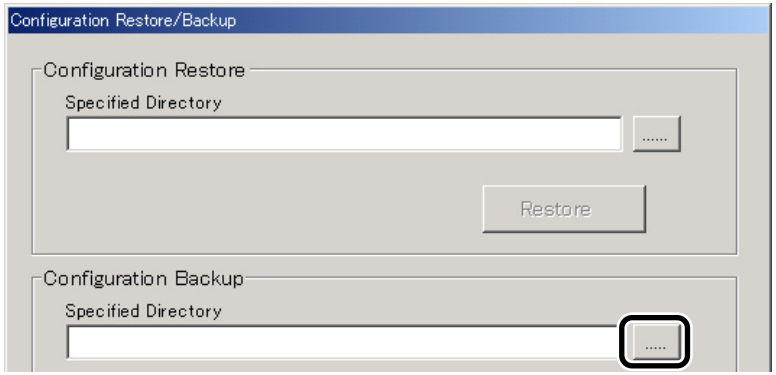
5. Restoring/Backing Up the Configuration File — Configuration Restore/Backup

☞ For details of procedures used for restoring the config file, see “14. Restoring the CL-Config” in “RI: Reinstalling the Software”.

1. Click [Configuration Restore/Backup] on the main menu.

➔ The configuration Restore/Backup window opens.

2. Click [...] for the Configuration Backup area.



00000417.EPS

➔ A window opens, prompting you to specify the save destination.

3. Click the downward arrow mark ( ) within c: in the “Drive:” box to select the drive onto which the configuration file is to be saved.

➔ The “Directory:” box shows the directory structure of the selected drive.

➥ *REFERENCE*

If drive “a” is selected, a message appears to prompt for the insertion of an FD.

4. Select a save destination directory and then click OK.

➔ The system returns to the Configuration Restore/Backup window.

5. Click Backup.

➔ After about one minute, a message appears prompting you to change the FD.

6. Insert the second FD into the FD drive.

◆ *NOTE* ◆

Even when the save process ends, no message appears to indicate it. While the save process is being performed, the mouse cursor is replaced by the “ ” mark. When the “ ” mark changes back to the mouse cursor, it means that the save process is ended.

Note, however, that the “ ” mark appears only when the mouse cursor is positioned within the Configuration Restore/Backup window.

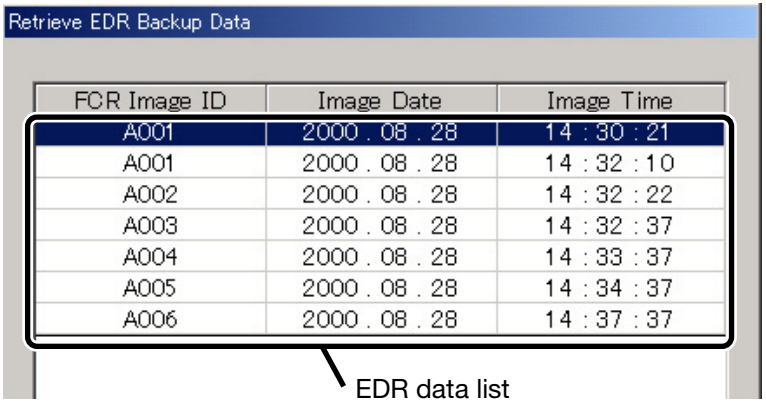
7. Click Cancel.

➔ The system returns to the main menu.

6. Retrieving EDR Data — Retrieve EDR Backup Data

1. **Click [Retrieve EDR Backup Data] on the main menu.**

➔ A list of EDR data appears.



00000067.EPS

➥ ***REFERENCE***

No EDR data appears immediately after installation.
EDR data listings do not appear until images are transferred to the CL.

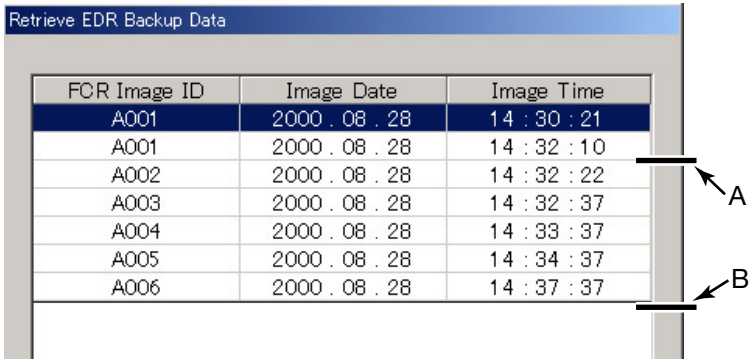
2. **Select one or more EDR data.**

- When selecting only one piece of EDR data

  I. Select an EDR data item by clicking it.

  ➔ The selected item becomes highlighted.

- When selecting two or more contiguous EDR data (selecting all data between “A” and “B” in the window illustration below)



00000068.EPS

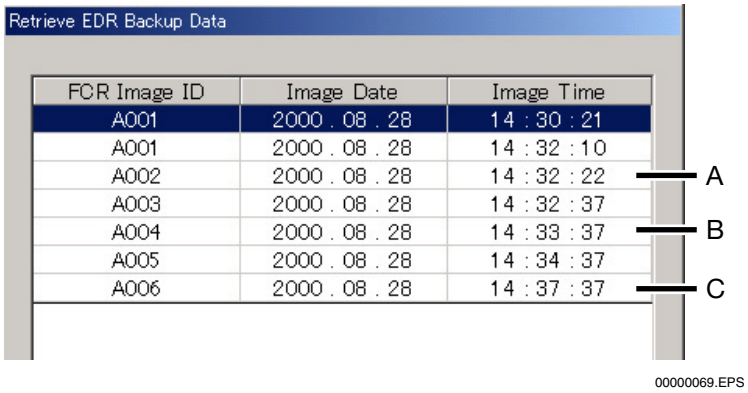
I. Click the first item of a set of contiguous data (“A002” in the above window illustration).

➔ The selected item becomes highlighted.

II. Hold down the “Shift” key and click the last item (“A006” in the above window illustration) of the contiguous data set.

➔ All the items from the first to the last become highlighted.

- When selecting two or more noncontiguous EDR data



00000069.EPS

I. Click the first item to be selected ("A002" in the above window illustration).

➔ The selected item becomes highlighted.

II. Hold down the "Ctrl" key and click the second item to be selected ("A004" in the above window illustration).

➔ The second item becomes highlighted as well.

III. Hold down the "Ctrl" key and click the third item to be selected ("A006" in the above window illustration).

➔ The third item becomes highlighted as well.

IV. To select any additional item, repeat step III.

➥ *REFERENCE*

Even if highlighted items are hidden when the window scrolls, they are retained as selected items.

3. **Click** Save **.**

➔ A window opens, prompting you to specify the save destination.

4. **Click the downward arrow mark ( ) within** c: **in the "Drive" box to select the drive onto which the EDR data is to be saved.**

➔ The left-hand area of the window shows the directory structure of the selected drive.

5. **Select the save destination directory and then click** OK **.**

➥ *REFERENCE*

If drive "a" is selected, a message appears to prompt for the insertion of an FD.

➔ When the save process ends, the system returns to the Retrieve EDR Backup Data window.

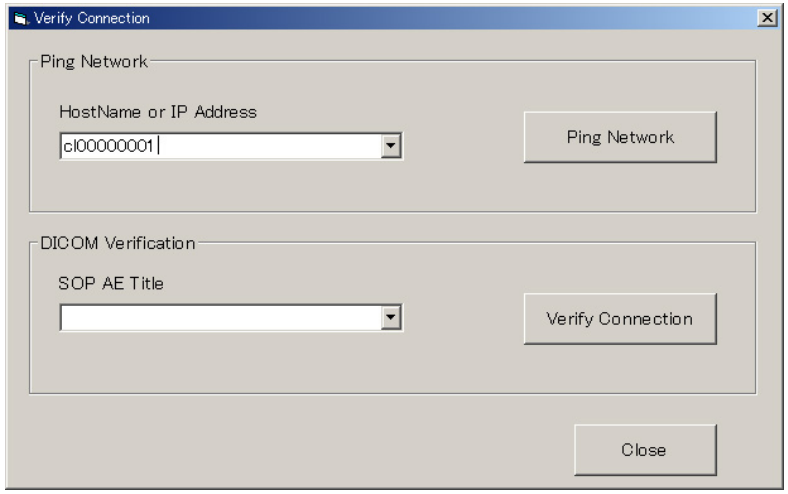
6. **Click** Cancel **.**

➔ The system returns to the main menu.

7. Verifying the Connection to Other Connected Equipment — Verify Connection

1. Click [Verify Connection] on the main menu.

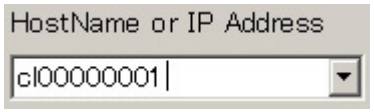
➔ The “Verify Connection” window opens.



00000070.EPS

2. Verify the Ping or DICOM connection as directed below:

- Verifying the connection with the Ping

I. In the 

field, enter the host name or IP address of the equipment to be subjected to connection verification.

➥ *REFERENCE*

Clicking the downward arrow mark *within* *lists the host names of equipment registered in the Service Utility.*

II. Click

.

➔ The command prompt window opens.

III. Verify the connection.

The connection is normal when the following message is displayed four times within the command prompt window.

Reply from 172.16.1.10: bytes=32 time<10ms TTL=128

➥ *REFERENCE*

Values for “time<10ms” and “TTL=128” in the message above vary depending on the network status. Connection remains normal even though such values vary.

IV. Close the command prompt window.

➔ The system returns to the “Verify Connection” window.

- Verifying the DICOM equipment connection

◆ NOTE ◆

To verify connections between DICOM equipment units, it is necessary that both this equipment and other connected equipment must support Service Class for the Verification function.

☞ For details of the setup procedure, see “CL+HI-C655/ QA-WS (DICOM CR Storage)” in “OE3: Connecting the CL to Other Equipment.

I. Click the downward arrow mark within

to specify the AE name of the DICOM equipment to be subjected to connection verification.

II. Click Verify Connection.

III. Verify the connection.
When the window below opens, the connection is OK.

00000246.EPS

3. **Click** Close.

➔ The system returns to the main menu.

8. Management of Various Databases — DataBase Utility

This section describes the procedures for initializing the image database, deleting the queued output images (clearing the contents of the image output queue), and initializing the patient database.

8.1 Initializing the Image Database

◆ *NOTES* ◆

- *When the OS is installed newly, be sure to initialize the image database. If you start up the CL-AP without initializing the image database, an error window opens (error code: 50001, 20001, 30107, 30151, 20110, etc.).*
- *If the MSDE is not running, database initialization cannot be effected. While the MSDE is running, the "" icon is displayed in the task tray at the lower right corner of the screen. If the icon is not displayed, restart the PC.*
- *If the image output queue is not empty, database initialization cannot be effected. Delete the images from the image output queue.*

☞ For the procedure for deleting the images from the image output queue, see "8.2 Clearing the Contents of the Image Output Queue".

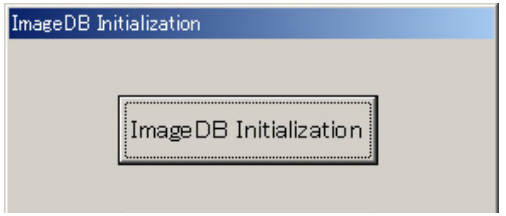
1. Start the Service Utility.

☞ For the Service Utility startup procedure, see "1. Starting/ Exiting the Service Utility".

➔ The main menu opens.

2. Click [DataBase Utility].

➔ The "ImageDB Initialization" window opens.



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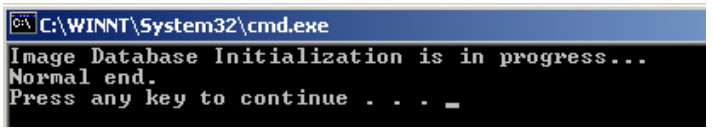
3. Click ImageDB Initialization.

➔ The command prompt window opens to display the following message:



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4. Press the <Enter> key.

➔ The image database initialization process ends in about 20 seconds.

◆ ***NOTES*** ◆

When the following message appears, the image database is not initialized.

It failed in initialized DB.

Check that the MSDE is running and that no image is placed on the image output queue.

- *To start the MSDE*
  ➔ *Restart the PC. Verify that the* *icon is displayed in the task tray.*
- *If the image output queue is not empty*
  ➔ *Delete the images from the image output queue*
  ☞ *For the procedure for deleting the images from the image output queue, see "8.2. Clearing the Contents of the Image Output Queue".*

5. When the message "Press any key to continue" appears again, press the <Enter> key.

➔ You are then returned to the "ImageDB Initialization" window.

8.2 Clearing the Contents of the Image Output Queue

1. Start the Service Utility.

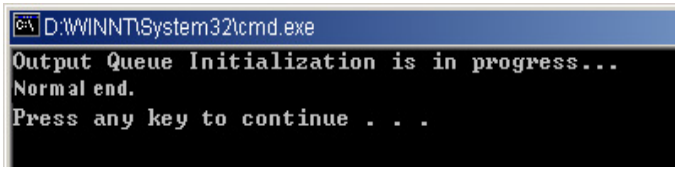
2. Click [DataBase Utility].

➔ The "DataBase Utility" window opens.

3. Click

.

➔ The command prompt window opens to display the following message:



00000347.EPS

4. Press the <Enter> key.

➔ The images are then deleted from the output queue and you are returned to the "DataBase Utility" window.

5. Click

.

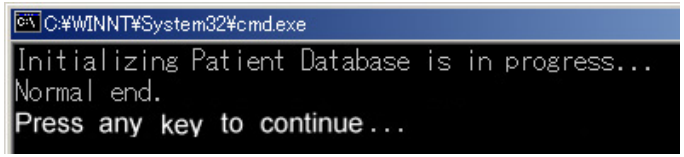
➔ You are then returned to the main menu.

8.3 Initializing the Patient Database

1. **Start the Service Utility.**

2. **Click [DataBase Utility].**
   ➔ The “DataBase Utility” window opens.

3. **Click** PatientDB Initialization.
   ➔ The command prompt window opens to display the following message:



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4. **Press the <Enter> key.**
   ➔ The patient database is then initialized and you are returned to the “DataBase Utility” window.

5. **Click** Cancel.
   ➔ You are then returned to the main menu.

9. Empty Chapter

10. Customizing the QA Items — Customized QA Item

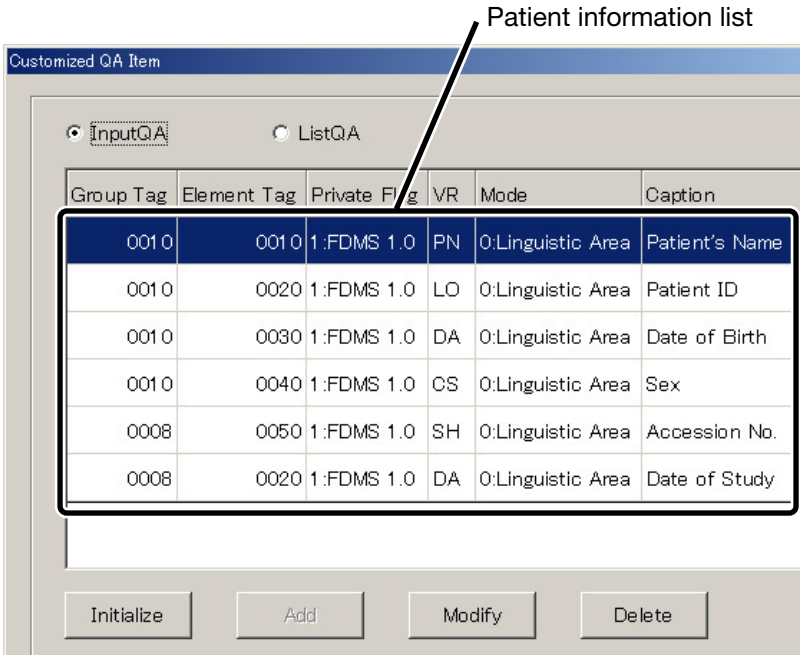
This section describes the procedures for customizing (adding, modifying, or deleting) the following six QA items of patient information, which appear in the QA window:

- Kanji Patient Name
- Patient ID
- Date of Birth
- Sex
- Accession No.
- Date of Study

1. **Start the Service Utility.**

2. **Click [Customized QA Item].**

➔ The patient information list appears.



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- Modifying QA items

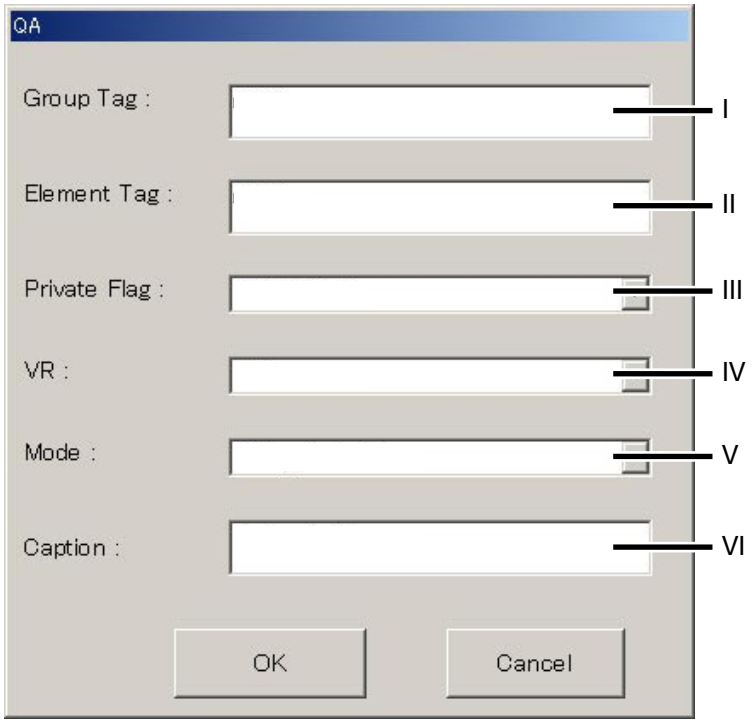
1. **Choose** InputQA **or** ListQA **and then click** Modify.

➔ The "QA" window opens.

REFERENCE

"InputQA" opens the QA window that can be used during a stuudy.
"ListQA" opens the QA window that can be used after completion of a study.

2. **Customize QA items I through VI.**



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I. Group number (If this field is left blank, the patient information is hidden.)
II. Element number (If this field is left blank, the patient information is hidden.)
III. Private creator flag

IV. VR

V. Acceptable input character type

0 : Linguistic Area (the language selection is complied with)
1 : Single-byte (ANK)
2 : Ideographic (kanji)
3 : Phonetic (change to katakana)

➥ *REFERENCE*

The V. selection can be made only when "PN" is selected for "VR".

VI. Display caption name

3. **Click** OK **.**

➔ You are then returned to the "Customized QA Item" window.

● Deleting patient information

1. **Choose** InputQA **or** ListQA **, select the item to be deleted from the patient information list, and then click** Delete **.**

➔ The "Close Configuration" window opens.

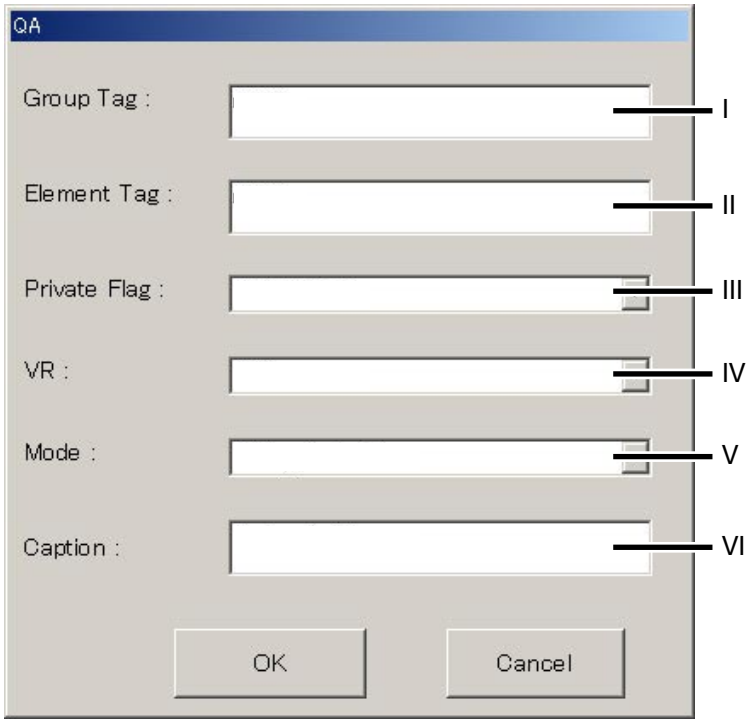
2. **Click** Yes **.**

➔ The patient information is then deleted.

● Adding patient information

1. **Choose** InputQA **or** ListQA **, select the item to be added to the patient information list, and then click** Add **.**

➔ The "QA" window opens.



00000553.EPS

2. **Make QA data entries and then click** OK **.**

For details on the QA items, see under "● Modifying QA items".

➔ You are then returned to the "Customized QA Item" window.

- Restoring the QA items to the default settings

1. **Click** Initialize.

➔ The contents of “InputQA” and “ListQA” both revert to their default values (with deleted ones restored).

11. Setting the Selectors — Selector Setting

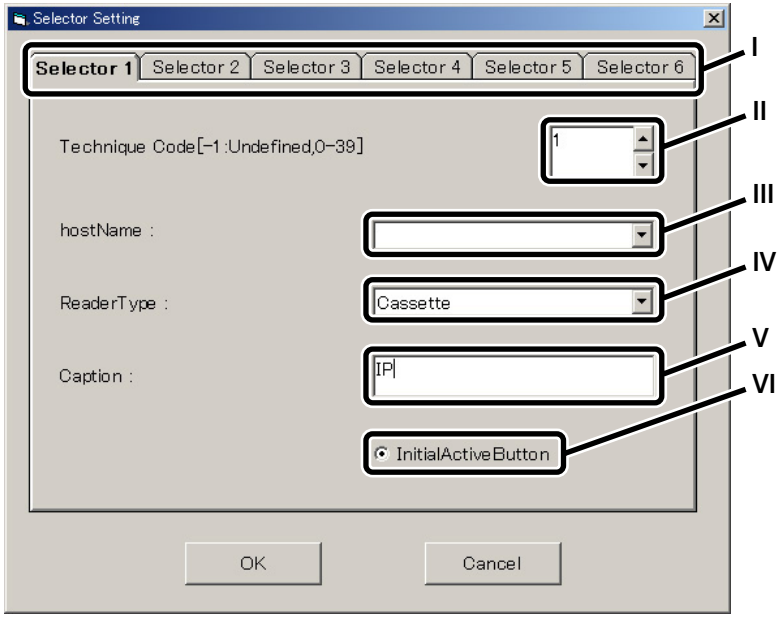
This section describes the procedure for setting the selectors.

1. **Start the CL's Service Utility.**

2. **Click [Selector Setting].**

➔ The "Selector Setting" window opens.

3. **Perform the following setup steps:**



00000551.EPS

I. Choose a selector tab.

II. Set the Technique Code paying attention not to set the same code with other selectors.

III. Select a device to be added to the selector (use the host name for selection).

IV. Make a ReaderType selection. To revert to "Cassette", choose a blank from the pull-down menu of the "hostName:" field.

V. Enter the character string (consisting of up to five characters) to be displayed on the selector button.

VI. To restore the currently edited selector to the status that prevailed at CL startup, turn this radio button ON.

4. **Click** OK **.**

➔ You are then returned to the main menu.

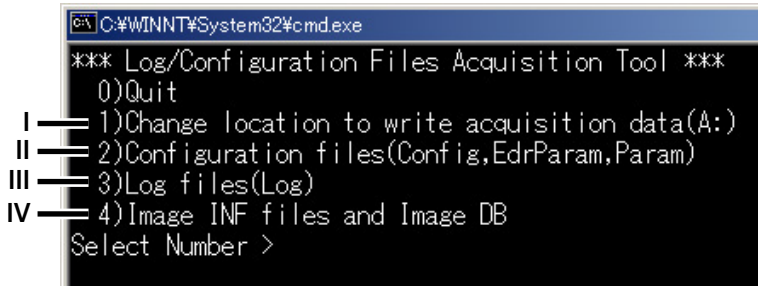
12. Collecting the Log and Configuration Files — Log/Configuration Files Acquisition Tool

This section describes the procedure for copying the CL's log and configuration files to an FD or HD.

1. **Start the CL's Service Utility.**

2. **Click [Log/Configuration Files Acquisition Tool].**

➔ A command prompt window opens.



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I. Specifies the file copy destination (drive A by default).
II. Copies the configuration files.
III. Copies the log files.
IV. Copies the files related to the image information and image database.

◆ ***NOTE*** ◆

If you intend to execute step II, III, or IV without executing step I (with drive A selected as the copy destination), be sure to insert an FD into the FDD beforehand.

3. **Click ✕ at the upper right corner of the command prompt window.**

➔ The system returns you to the main menu.

CR-IR346/348CL Service Manual

FR: Function-specific Reference

FR consists of the following:

FR1 Print Output Function
FR2 DICOM Tag Mapping Function

Control Sheet

Issue date	Revision number	Reason	Pages affected
10/20/2000	00	New release (FM2862)	All pages
12/10/2000	00	Revision (FM2950)	Pages I, II, 1~3, 5~9, 14~17
04/10/2001	01	Previous Chapter F “Function-specific Reference” modified (FM2951)	All pages
05/30/2001	02	Revision for software version A02 (FM3027)	I, II, 1-1~16, 1-18, 1-20~22, 2-1, 2-2
05/30/2001	02	Changes in pagination (FM3027)	1-17, 1-19
08/30/2001	03	Revision for software version A04 (FM3125)	I, II, 1, 6-11, 13-16, 18, 19, 22, 2-1
08/30/2001	03	Changes in pagination (FM3125)	20, 21

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Print Output Function

Presented herein are the settings necessary for enabling the print output function.

◆ ***NOTE*** ◆

The "CR-IR346/348CL" and the "Local Printer" are abbreviated hereafter "CL" and "LP", respectively.

■ Setup necessary when connecting the LP

Describes various setup items for the sorter or printer type (New or Old) for when using the LP.

☞ See "1. Setup Necessary When Connecting the LP".

■ Setup necessary when editing the film annotation character format

Describes various setup items for the film annotation character format.

☞ See "2. Setup Necessary When Editing the Film Annotation Character Format".

■ Editing the FilmStrFmt.env file

// Being now prepared. //

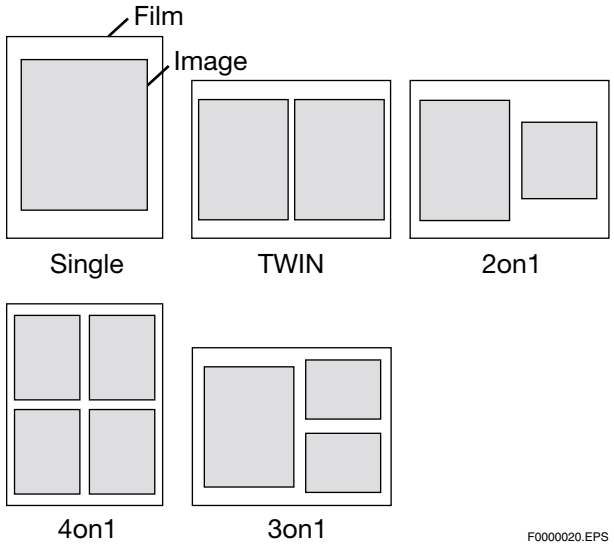
☞ See "3. Editing the FilmStrFmt.env File".

■ Setting the DICOM Print output conditions

☞ See "4. Setting the DICOM Print Output Conditions".

■ Print formats

The CL supports the following formats : Single, Twin, 2on1, 4on1 and 3on1 (only for energy subtraction images).



Single : A format on which the one image is allotted on film.

Twin : A format in which the two same images are allotted on film. Each of the images are subjected to different image processing.

2on1 : A format on which the two different images are allotted on film.

4on1 : A format on which the four different images are allotted on film.

3on1 : A format on which the three different images are allotted on film (only when printing energy subtraction images).

➥ ***REFERENCE***

When the image size is larger than the area available for printing an image on film, the image size will be reduced automatically to the area available for image printing.

1. Setup Necessary When Connecting the LP

Setup items necessary when connecting the LP are listed below.
Set up the items listed below in “Setup Configuration Item” - “SYSTEM CONFIG” - “4. PRINETR” of the Service Utility mode.

Table Config list when connecting the LP (1/2)

No.	Name	Selection	Meaning
1	Pixel Clock Rate Changeover	◎ 10 Basically select this item. ❍ 20 Select when the LP i/f cable exceeds 60m in length.	Specifying the image transfer speed. (Pixel Clock Rage [*0.1µsec/pixel])
2	Enable Magnify Print	❍ Yes Magnifies. ◎ No Does not magnify.	Specifying whether or not to magnify and print a 35×43cm/14”×17” · 35×35cm/14”×14” standard image on a 35×43cm film in the one-image format. * Basically select “No”. To select “Yes”, a permission is required from the service maintenance headquarters.
3	Film Sorting Info. Setup	◎ 0: None ❍ 1: Space(2)+Dep.code (8) ❍ 2: Dep.Code(4)+MenuName(6) ❍ 3: Dep.Code(4)+FilmChar1(6) ❍ 4: FCRImageID(1)+Space(9) ❍ 5: Space(4)+MPMcode(4)+Space(2) ❍ 6: Space(4)+FilmChar1(6) ❍ 7: Dep.Code(4)+MPMcode(4)+Space(2) Space: Space Dep.Code: Requesting department in alphanumerics MenuName: Menu name in one-byte characters FilmChar1: Film mark FCRImageID: Image ID (ID on the film annotation characters) MPMcode: MPM code	Specifying the film sorting type when a sorter is used for the FM-DPL printer. * Do not specify 3 and 6 when the HIC655 and QA-WS are used.

◎: Default setting, *: Note

Table Config list when connecting the LP (2/2)

No.	Name	Selection	Meaning
4	Menu Name Start Position on Film	0_16 (◎0)	When 2, 3 or 6 is selected for "3 Film Sorting Info. Setup" above, six characters of the Menu Name (20 characters) or FilmChar (ten characters) will be used. This item is to specify which portion of the area is selected and used. For example, if 0 is specified, six characters from the top will be used. If 2 is specified, six characters counting from the third character will be used. * The portion of "setup value + six characters" that exceeds the area of each item will be spaces. * When FilmChar is used, an error occurs if ten or more is specified for the number of characters.
5	Unique ID for Film Sorting Condition	◎ 0: Space ❍ 1: ID#	Specifying the unique ID for film sorting condition. * Do not specify 1 when the HIC655 and QA-WS are used.
6	Printer Interface Type (Old/New)	❍ 0: Old Select when using a CR-LP414N/FL-IM2636N or FM-IM3543N/FL-IM3543MN printer. ◎ 1: New Select when using a printer other than the above.	Specifying the printer i/f type.
7	Film Size Available in Printer	◎ 0: 2636 (26×36cm) ❍ 1: 3543 (35×43cm/14×17inch) ❍ 2: 3535 (35×35cm/14×14inch)	Specifying the film size used on the printer side. * This setting is effective only when "0:Old" was selected when the previous i/f printer has been connected ("Printer Interface Type (Old/New)").
8	Film Base Color (Blue/Clear)	◎ 0: Blue ❍ 1: Clear	Specifying the film base color used on the printer side. * This setting is effective only when "0:Old" was selected when the previous i/f printer has been connected ("Printer Interface Type (Old/New)").
9	Printer Buffer Size	◎ 0: Single ❍ 1: Double	Specifying the buffer size used on the printer side. * This setting is effective only when "0:Old" was selected when the previous i/f printer has been connected ("Printer Interface Type (Old/New)").

◎: Default setting, ⋆: Note

◆ *NOTE* ◆

Items after 10 are used when editing the film annotation character format, which are thus described in "2. Setup Necessary When Editing the Film Annotation Character Format".

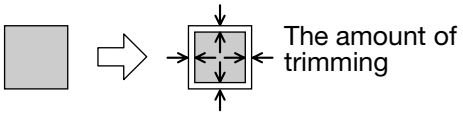
2. Setup Necessary When Editing the Film Annotation Character Format

2.1 Setup Items Table

Setup items necessary when editing the film annotation character format are listed below.
Set up the items listed below in “Setup Configuration Item” - “SYSTEM CONFIG” - “4. PRINETR” of the Service Utility mode.

■ Setup Items Table

Table Film annotation character format config list (1/8)

No.	Name	Selection	Meaning
10	Black Margin Setup on Film Edge	◎ 0: Margin depend on image ID (default: Transparent) Transparent or black depending on the image information. Transparent unless specified by the image information. ❍ 1: Margin depend on image ID (default: Black) Transparent or black depending on the image information. Black unless specified by the image information. ❍ 2: Transparent Margin (Fix) Always transparent. ❍ 3: Black Margin (Fix) Always black.	Specifying the film margin type.
11	Trimming Range [mm]	0_25 (◎0)  	Specifying the amount of trimming in mm (for other than mammography). * Be sure to enter one-byte characters on the key board.
12	Trimming Range for Mammography [mm]	0_25 (◎0)	Specifying the amount of trimming in mm (for mammography). * Be sure to enter one-byte characters on the key board.

◎: Default setting, *: Note

Table Film annotation character format config list (2/8)

No.	Name	Selection	Meaning
13	Print Barcode	◎ Yes: Outputs. ❍ No: Does not output.	Specifying whether or not to output on film the IP no. read by the RU's barcode reader.
14	Print EDR Mode	◎ Yes: Outputs. ❍ No: Does not output.	Specifying whether or not to output on film the setup data in EDR mode. * "A" for AUTO, "S" for SEMI, "F" for FIX and "S" for SEMI-X will be printed on film.
15	Pring Image Process Condition	◎ Yes: Outputs. ❍ No: Does not output.	Specifying whether or not to print image processing conditions on film.
16	Pring L, S, CS, SS Condition	◎ Yes: Outputs. ❍ No: Does not output.	Specifying whether or not to print L, S, and CS/SS values on film.
17	Print Shot Time	◎ Yes: Outputs. ❍ No: Does not output.	Specifying whether or not to print the date of exposure on film. * Other than Japanese version, "EXP:" will be printed as the title to the top (on the left side) of the date of exposure.
18	Print Set Process	◎ Yes: Outputs. ❍ No: Does not output.	Specifying whether or not to print the routine or group information on film. * Film printout example: RT-01, TS 1 01
19	Print Engineer ID	◎ Yes: Outputs. ❍ No: Does not output.	Specifying whether or not to print the technician's code information on film
20	Print Menu Name	◎ Yes: Outputs. ❍ No: Does not output.	Specifying whether or not to print the exposure menu name on film.
21	Print Compression Rate	❍ Yes: Outputs. ◎ No: Does not output.	Specifying whether or not to print image data compression code information on film. * On the Japanese version, "compression ratio:" will be printed as the title on the left side of the image data compression code information. "CC:" will be printed for other than the Japanese version.

◎: Default setting, ⁎: Note

Table Film annotation character format config list (3/8)

No.	Name	Selection	Meaning
22	Print Energy-Subtraction Parameter	◎ Yes: Outputs. ❍ No: Does not output.	Specifying whether or not to print energy subtraction processing parameter information on film.
23	Print Image Frame (3543 film: 14×17, 14×14, 18×43/2025 film: 8×10, 18×24 Single Format)	❍ Yes: Printed with image frame. ◎ No: Printed with no image frame.	Specifying whether or not to add image frame when printing a 35×43cm/14"×17", 35×35cm/14"×14" or 18×43cm image on a 35×43cm film in the single format or printing an 18×24cm/8"×10" image on an 8"×10" film in the single format. * Unless the output format is properly positioned, the image format will not be displayed.
24	Print Image Frame (3543 film: 18×43 LR/2on1 Format)	❍ Yes: Printed with image frame. ◎ No: Printed with no image frame.	Specifying whether or not to add image frame when printing an 18x43cm image on a 35×43cm film in the LR or 2on1 format. * Unless the output format is properly positioned, the image format will not be displayed.
25	Print Image Frame (3543 film: 14×17, 18×43, 8×10 4on1 Format)	❍ Yes: Printed with image frame. ◎ No: Printed with no image frame.	Specifying whether or not to add image frame when printing a 25×43cm/14"×17", 18x43cm or 18×24cm/ 8"×10" image on a 35×43cm film in the 4on1 format.
26	Print Image Frame (3543 film: Energy-Substraction 3on1 Format)	◎ No: Does not generate outputs. ❍ Yes:Generates outputs.	Specifying whether or not to attach an image border to images that are printed on 14"×17" size film in energy-subtraction 3on1 format.
27	Print Image Frame (2636 film: 18×24, 24×30/2025 film:18×24 Single Mammography Format)	◎ No: Does not generate outputs. ❍ Yes:Generates outputs.	Specifying whether or not to attach an image border to 18×24 cm or 24×30 cm size images that are printed on 26×36 cm size film in the single mammography format or to 18×24cm size images that are printed on 8"×10" size film in the single mammography format.
28	Print Image Frame (2636 film: 18×24 2on1 100% Format)	◎ No: Does not generate outputs. ❍ Yes:Generates outputs.	Specifying whether or not to attach an image border to 18×24 cm size images that are printed on 26×36 cm size film in 2on1 (100%) format.

◎: Default setting, ⁎: Note

Table Film annotation character format config list (4/8)

No.	Name	Selection	Meaning
29	No Print Scale (User Definition Rules)	[Dialog setup] (?3??) ☞ The setup procedure is described in "■ Details of [dialog setup]".	Specifying whether or not to print the reading scale. * This setup is effective only when "Printed with image frame" is selected. * This setup can be selected also for each MPM code. A maximum of 8 MPM codes can be specified (a wild card can be used).
30	Representation of Age	◎ Age: Displayed by the age. Other than the Japanese ver.: E.g.) 25Y, 1Y8M, 1Y10D, 13D ❍ Date of Birth: Displayed by the date of birth. Other than the Japanese ver.: E.g.) "DATE B" is printed.	Specifying the age representation format. * Use "1. Image Modality" - "1. System Common Date Format" for the DATE representation format.
31	Print Reverse Mark	❍ 0: None Does not print. ❍ 1: R-reverse Image not rotated: Does not display. Image rotated: "Я" is displayed. ◎ 2: AP or PA Image not rotated: "AP" is displayed. Image rotated: "PA" is displayed.	Specifying whether or not to output the right-and-left image rotation mark.
32	Print 3543, 2025 Film Character Field (14×17-Single/4on1, 18×43-LR/2on1/4on1, 8×10-4on1, 8×10/10×24-Single Format)	❍ 0: None Does not output film. ❍ 1: Only area 1 Only film annotation character area 1 is displayed. ❍ 2: Only area 2 Only film annotation character area 2 is displayed. ◎ 3: Both Both areas1 and 2 are displayed.	Specifying the film annotation character area display format when outputting a 35×43cm or 20×25cm film in the following patterns. ❍14"×17" • 35×43cm/14"×17" image in the single or 4on1 format • 18×43cm image in the TWIN, 2on1 or 4on1 format • 18×24cm/8"×10" image in the 4on1 format ❍8"×10" • 18×24cm/8"×10" image in the single format ☞ See "■ Film annotation character areas 1 and 2".
33	Print Film Char 2/Examination number	◎ 0: Film char 2 Film annotation character 2 is output. ❍ 1: Examination Number The examination number is output.	Specifying whether to output film annotation character 2 or the examination number.
34	Size Selection of 3543 Film Character (Single Format)	◎ 0: Standard ❍ 1: Large	Specifying the film annotation character and area sizes when outputting a 35×43cm/14"×17" image on a 14"×17" film in the single format.

◎: Default setting, ⁎: Note

Table Film annotation character format config list (5/8)

No.	Name	Selection	Meaning
35	3543 Film Character Field Position & Rotation (14×17 Image)	[Dialog setup] (◎0010) ☞ The setup procedure is described in "■ Details of [dialog setup]".	Specifying the position and rotation of film annotation character areas 1 and 2 when printing a 35×43cm/14"×17" image in the single or 4on1 format on a 35×43cm film. * This setup is effective for all exposure menus. To specify this setup individually for each MPM code, use the No. 39 setup. ☞ See "■ Film annotation character areas 1 and 2".
36	3543 Film Character Field Position & Rotation (17×14 Image)	[Dialog setup] (◎1131) ☞ The setup procedure is described in "■ Details of [dialog setup]".	Specifying the position and rotation of film annotation character areas 1 and 2 when printing a 43×35cm/17"×14" image in the single or 4on1 format on a 35×43cm film. * This setup is effective for all exposure menus. To specify this setup individually for each MPM code, use the No. 40 setup. ☞ See "■ Film annotation character areas 1 and 2".
37	3543 Film Character Field Position & Rotation (18×43 Image)	[Dialog setup] (◎0010) ☞ The setup procedure is described in "■ Details of [dialog setup]".	Specifying the position and rotation of film annotation character areas 1 and 2 when printing an 18×43cm image in the LR, 2on1 or 4on1 format on a 35×43cm film. * This setup is effective for all exposure menus. To specify this setup individually for each MPM code, use the No. 41 setup. ☞ See "■ Film annotation character areas 1 and 2".
38	3543, 2025 Film Character Field Position & Rotation (3543 Film: 8×10-4on1, 2025 Film: 8×10-Single)	[Dialog setup] (◎0010) ☞ The setup procedure is described in "■ Details of [dialog setup]".	Specifying the position and rotation of film annotation character areas 1 and 2 when printing an 18×24cm/8"×10" image in the 4on1 format on a 35×43cm film or printing an 18×24cm/8"×10" image in the single format on a 20×25cm film. * This setup is effective for all exposure menus. To specify this setup individually for each MPM code, use the No. 42 setup. ☞ See "■ Film annotation character areas 1 and 2".
39	2025 (Landscape) Film Character Field Position & Rotation (8×10, 18×24-Single)	[Dialog setup] (◎1131) ☞ The setup procedure is described in "■ Details of [dialog setup]".	Specifying the position and rotation of film annotation character areas 1 and 2 when printing a 90°-rotated 8"×10"/18×24cm image on an 18×24cm film in the single format. ☞ See "■ Film annotation character areas 1 and 2".

◎: Default setting, *: Note

Table Film annotation character format config list (6/8)

No.	Name	Selection	Meaning
40	Film Character Field position & rotation (User Definition Rules 1)	[Dialog setup] (◎No setup available.) ☞ The setup procedure is described in "■ Details of [dialog setup]".	Specifying the position and rotation of film annotation character areas 1 and 2 when printing a 35×43cm/14"×17" image in the single or 4on1 format on a 35×43cm film. * Setup is necessary for each MPM code. (A maximum of 8 MPM codes can be selected. A wild card cannot be used.) * This setup data prevails over that in No. 35. ☞ See "■ Film annotation character areas 1 and 2".
41	Film Character Field position & rotation (User Definition Rules 2)	[Dialog setup] (◎No setup available.) ☞ The setup procedure is described in "■ Details of [dialog setup]".	Specifying the position and rotation of film annotation character areas 1 and 2 when printing a 43×35cm/17"×14" image in the single or 4on1 format on a 35×43cm film. * Setup is necessary for each MPM code. (A maximum of 8 MPM codes can be selected. A wild card cannot be used.) * This setup data prevails over that in No. 36. ☞ See "■ Film annotation character areas 1 and 2".
42	Film Character Field position & rotation (User Definition Rules 3)	[Dialog setup] (◎No setup available.) ☞ The setup procedure is described in "■ Details of [dialog setup]".	Specifying the position and rotation of film annotation character areas 1 and 2 when printing an 18×43cm image in the LR, 2on1 or 4on1 format on a 35×43cm film. * Setup is necessary for each MPM code. (A maximum of 8 MPM codes can be selected. A wild card cannot be used.) * This setup data prevails over that in No. 37. ☞ See "■ Film annotation character areas 1 and 2".
43	Film Character Field position & rotation (User Definition Rules 4)	[Dialog setup] (◎No setup available.) ☞ The setup procedure is described in "■ Details of [dialog setup]".	Specifying the position and rotation of film annotation character areas 1 and 2 when printing an 18×24cm/8"×10" image in the 4on1 format on a 35×43cm film * Setup is necessary for each MPM code. (A maximum of 8 MPM codes can be selected. A wild card cannot be used.) * This setup data prevails over that in No. 38. ☞ See "■ Film annotation character areas 1 and 2".

◎: Default setting, *: Note

Table Film annotation character format config list (7/8)

No.	Name	Selection	Meaning
44	Film Character Field position & rotation (User Definition Rules5)	[Dialog setup] (◎ No setup available.) ☞ The setup procedure is described in "■ Details of [dialog setup]".	Specifying the position and rotation of film annotation character areas 1 and 2 when an image overlaps the film annotation character area. ☞ See "■ Film annotation character areas 1 and 2".
45	Film Character Field position & rotation (User Definition Rules6)	[Dialog setup] (◎ No setup available.) ☞ The setup procedure is described in "■ Details of [dialog setup]".	Specifying the position and rotation of film annotation character areas 1 and 2 when an image overlaps the film annotation character area. ☞ See "■ Film annotation character areas 1 and 2".
46	Image Area Move to the Top of 3543 Film	❍ Yes: Moves to the top of the film. ◎ No: Does not move.	Specifying the image output position when printing a 15x30cm, 35×35cm/14"×14" or 43×43cm/17"×17" image in the single format on a 35×43cm film.
47	Patient's Name Length on Film	0 - 64 (◎ 20)	Specifying the maximum patient name length in one-byte characters when printing it on film. * If a number larger than 20, the default, is specified, the film annotation character area cannot possibly hold other information items.
48	Patient's Name Length on Film (Multibyte)	0 - 64 (◎ 10)	Specifying the maximum kanji patient name length in two-byte characters when printing it on film. * If a number larger than 10, the default, is specified, the film annotation character area cannot possibly hold other information items.
49	Patient's Name Justify on Film	◎ 0: Left : Left-padding. ❍ 1: Right : Right-padding.	Specifying whether to select right- or left-padding for printing patient name on film.

◎: Default setting, *: Note

◆ *NOTE* ◆

The patient name, exposure menu, requesting department, as well as the patient ID and examination number need setups for both maximum length displayed and right-/left-padding.
These two items should be set up according to "Setup Configuration Item" – "SYSTEM CONFIG" – "5. IDT/CSL FUNCTION" in Nos.15 to 18.

☞ *"3.6 Config Details — 5. CLS/IDT FUNCTION" under "MU: Maintenance Utility"*

Table Film annotation character format config list (8/8)

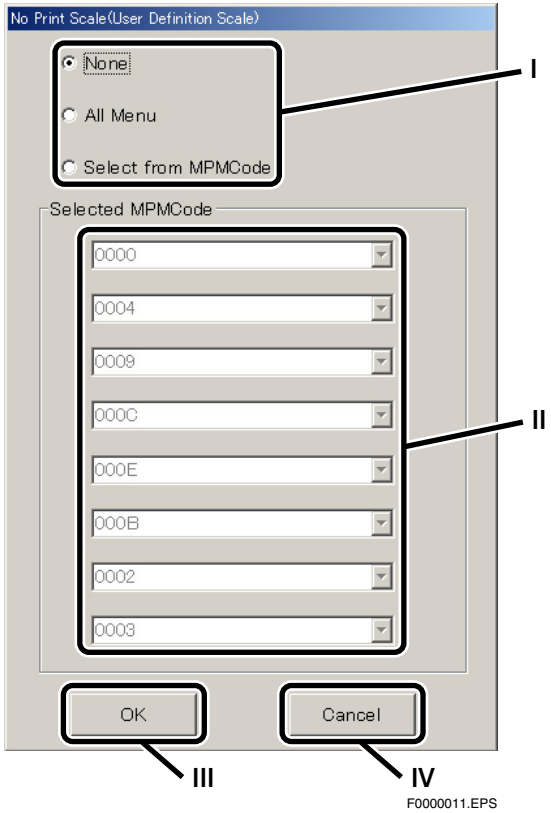
No.	Name	Selection	Meaning
50	Menu Name Length on Film	0 - 64 (◎ 20)	Specifying the maximum exposure menu name length in one-byte characters when printing it on film. * If a number larger than 20, the default, is specified, the film annotation character area cannot possibly hold other information items.
51	Menu Name Length on Film (Multibyte)	0 - 64 (◎ 16)	Specifying the maximum kanji exposure menu name length in two-byte characters when printing it on film. * If a number larger than 16, the default, is specified, the film annotation character area cannot possibly hold other information items.
52	Menu Name Justify on Film	◎ 0: Left : Left-padding. ❍ 1: Right : Right-padding.	Specifying whether to select right- or left-padding for printing exposure menu name on film.
53	Department Name Length on Film	0 - 64 (◎ 8)	Specifying the maximum requesting department name length in one-byte characters when printing it on film. * If a number larger than 8, the default, is specified, the film annotation character area cannot possibly hold other information items.
54	Department Name Length on Film (Multibyte)	0 - 16 (◎ 4)	Specifying the maximum requesting department name length in two-byte characters when printing it on film. * If a number larger than 4, the default, is specified, the film annotation character area cannot possibly hold other information items.
55	Department Name Justify on Film	◎ 0: Left : Left-padding. ❍ 1: Right : Right-padding.	Specifying whether to select right- or left-padding for printing the requesting department name on film.
56	Enable Auto Edit Function of Film String Format File	◎ Yes: Enables. ❍ No: Does not enable.	Specifying whether or not to enable the automatic character format generation function for Nos. 2 and 10 to 56.
57	Gap between Image Edge and Film Edge (Mammography Format) [× 0.1mm]	0 - 50 (◎ 0)	Specifying gap between images. * Be sure to enter one-byte codes from the keyboard. ☞ "■ Specifying the gap between mammograms"

◎: Default setting, ⁎: Note

■ Details of [dialog setup]

● Setup of “29. No Print Scale (User Definition Rules)”

Double-clicking the No. 26 “Value” column will open the following dialog.



F0000011.EPS

I. To add no reading scale, select “None” (default). To add reading scale to all films, select “All Menu”, and “Select from MPMcode” for adding reading scale only to images of certain MPM code.

II. Enter the image’s MPM code on the keyboard or select it from the pull-down menu.
Be sure to set up if “Select from MPMcode” is selected in step I. above. Specifying using a wild card is also possible, such as “?0??” (“?” is an arbitrary one-digit alphanumeric from 0 to F.)

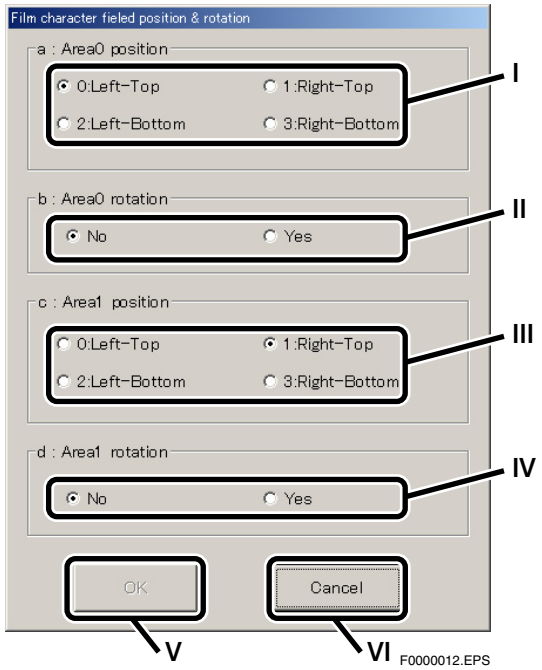
III. Click if data set up in I. and II. above are correct.
The system returns to the previous window and any of the following will be displayed in the “Value” column.

- None: No reading scale is added.
- All Menu: Reading scale is added to all menus.
- Four-digit number: MPM code of the image the reading scale is added to.

IV. Click to cancel the setup data to be saved.

● Setup of “35 to 39. XXXX Film Character Field Position & Rotation (3543 Film:8×10-4on1, 2025 Film:8×10-Single)”

Double-clicking the “Value” column of Nos. 35 to 39 will open the following dialog.



F0000012.EPS

I. Specifies the film annotation character area 1 display position.

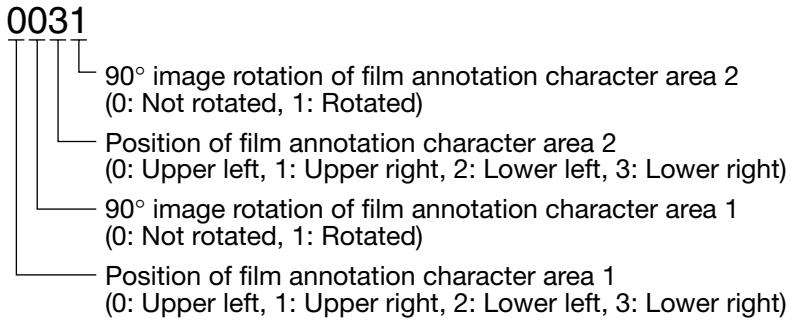
II. Specifies the 90° image rotation (counterclockwise) of film annotation character area 1.

III. Specifies the film annotation character area 2 display position.

IV. Specifies the 90° image rotation (counterclockwise) of film annotation character area 2.

☞ For details of the film annotation character area, see “■ Film annotation character areas 1 and 2”.

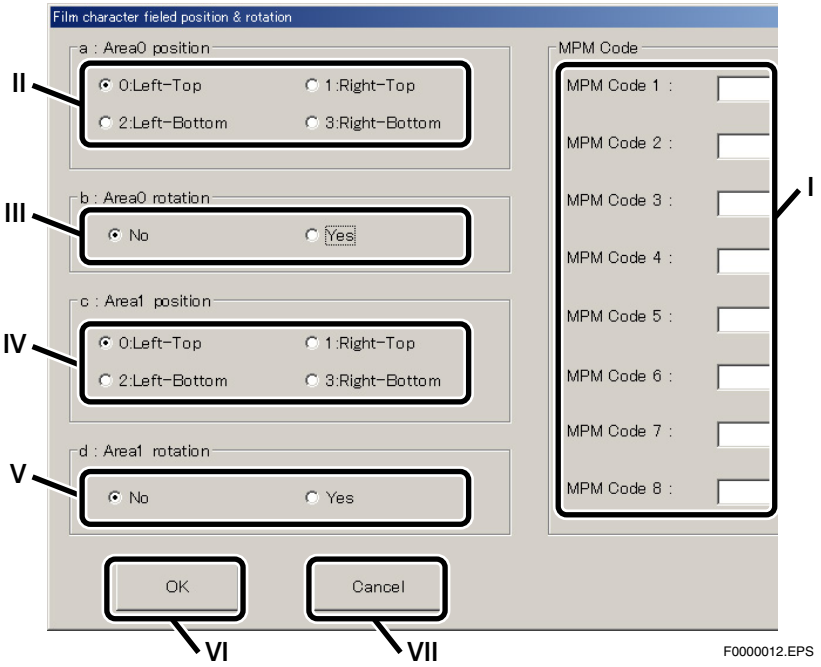
V. Click if data set up in I. to IV. above are correct.
The system returns to the previous window and a four-digit number will be displayed in the “Value” column. The meaning of such four-digit number is as follows.


0031
90° image rotation of film annotation character area 2
(0: Not rotated, 1: Rotated)
Position of film annotation character area 2
(0: Upper left, 1: Upper right, 2: Lower left, 3: Lower right)
90° image rotation of film annotation character area 1
(0: Not rotated, 1: Rotated)
Position of film annotation character area 1
(0: Upper left, 1: Upper right, 2: Lower left, 3: Lower right)
F0000014.EPS

VI. Click to cancel the setup data to be saved.

● “40 to 45. Film Character Field Position & Rotation (User Definition Rules)”

Double-clicking the “Value” column of Nos. 39 to 42 will open the following dialog.



F0000012.EPS

I. Enter on the keyboard the MPM code of the image the film annotation character area of which is changed or select it from the pull-down menu.
Specifying using a wild card is not allowed.

II. Specify the film annotation character area 1 display position.

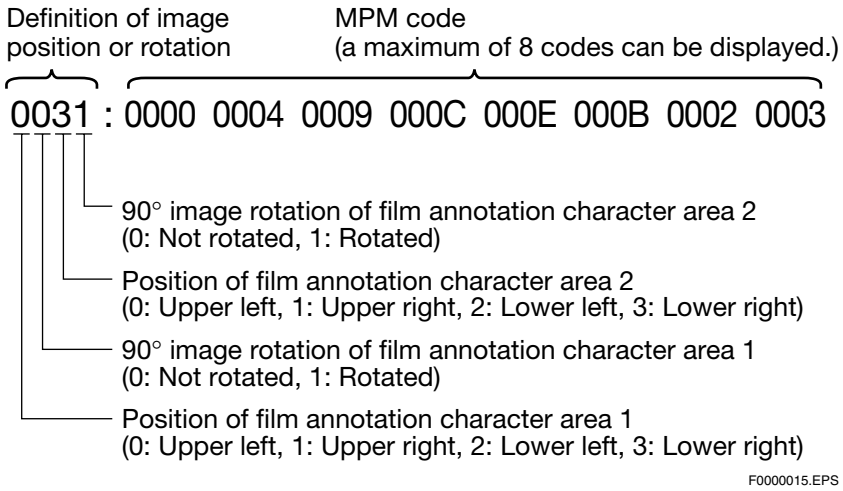
III. Specify the 90° image rotation (counterclockwise) of film annotation character area 1.

IV. Specify the film annotation character area 2 display position.

V. Specify the 90° image rotation (counterclockwise) of film annotation character area 2.

☞ For details of the film annotation character area, see “■ Film annotation character areas 1 and 2”.

IV. Click if data set up in I. to V. above is correct.
The system returns to the previous window and a character string appears in the “Value” column to indicate the content of the setup data.


Definition of image position or rotation
MPM code (a maximum of 8 codes can be displayed.)
0031 : 0000 0004 0009 000C 000E 000B 0002 0003
90° image rotation of film annotation character area 2 (0: Not rotated, 1: Rotated)
Position of film annotation character area 2 (0: Upper left, 1: Upper right, 2: Lower left, 3: Lower right)
90° image rotation of film annotation character area 1 (0: Not rotated, 1: Rotated)
Position of film annotation character area 1 (0: Upper left, 1: Upper right, 2: Lower left, 3: Lower right)

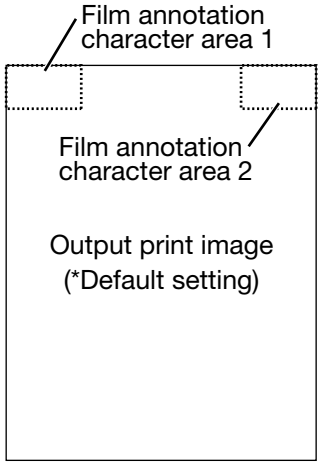
F0000015.EPS

VII. Click to cancel the setup data to be saved.

■ Film annotation character areas 1 and 2

Following is the description of film annotation character areas 1 and 2 that can be specified in Nos. 32 and 35 to 45, whether to display it and the positional and rotational movement.

If an image is printed on a 14"×17" film as set by the default, the film annotation characters are displayed at both the upper right and left of the image. Areas where those characters are displayed are the film annotation character areas.
The upper-left area is area “1” and that at the upper right is area “2”.



F0000010.EPS

● Whether to display the film annotation character areas

Select whether or not to display film annotation character areas 1 and/or 2 using the function in “32. Print 3543, 2025 Film Character Field (14×17- Single/4on1, 18×43-LR/2on1/4on1, 8×10-4on1)”.

❍ 0: None
Neither film annotation character area 1 nor 2 are printed on film.

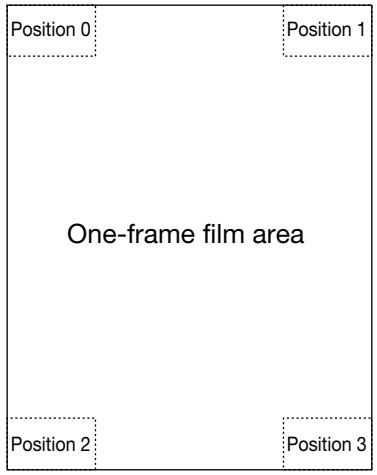
❍ 1: Only area 1
Only film annotation character area 1 is printed on film.

❍ 2: Only area 2
Only film annotation character area 2 is printed on film.

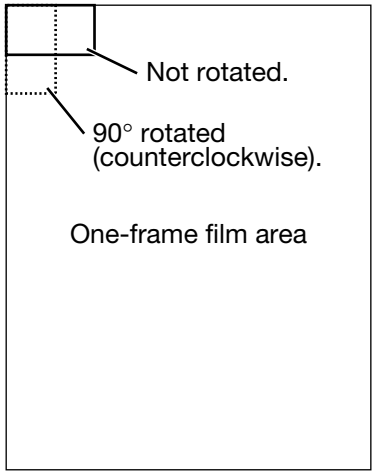
❍ 3: Both (default)
Both of the film annotation character areas are printed on film.

● Positional and rotational movement of the film annotation character areas

Specify the positional and rotational movement of the film annotation character areas in “35 to 45. 3543 Film Character Field Position & Rotation (XXXXX)”.



Definition of positional movement



Definition of rotational movement

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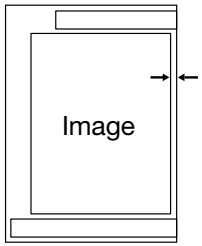
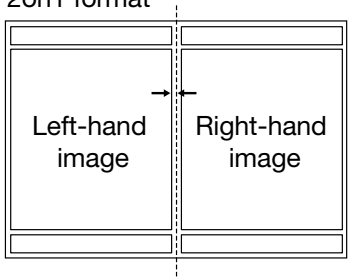
■ Specifying the gap between mammograms

Note the following details when you specify the gap between mammograms as directed in “57 Gap between Image Edge and Film Edge (Mammography Format) [× 0.1 mm]”.

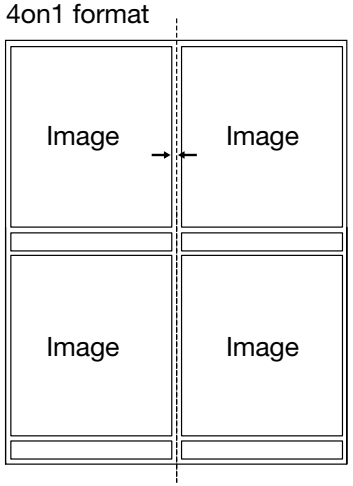
Single format



2on1 format



4on1 format



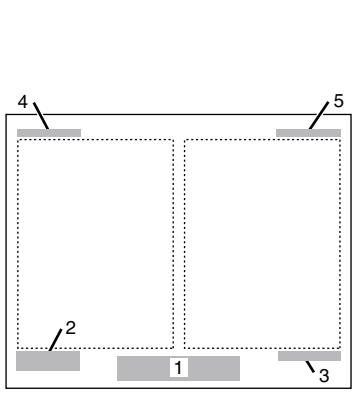
Setting range:
0 to 50 mm
(variable in 0.1 mm units)

F0000047.EPS

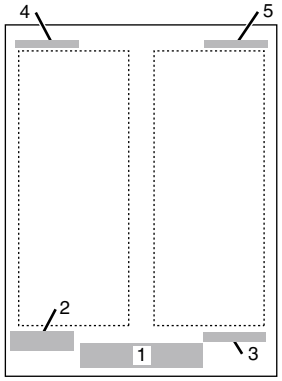
■ 26×36cm and 14"×17" film printout patterns [Reference]

Illustrated below are the film printout patterns of the 26×36cm and 14"×17" films.

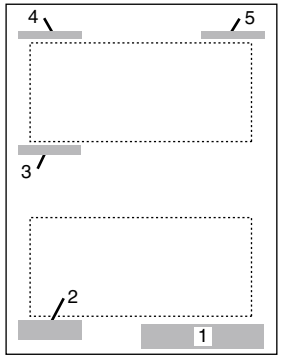
● 26×36cm film



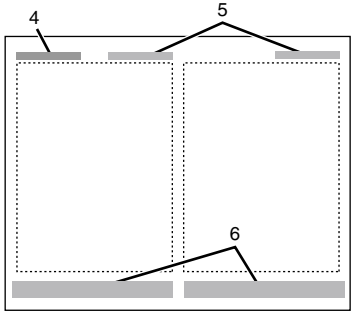
Routine TWIN



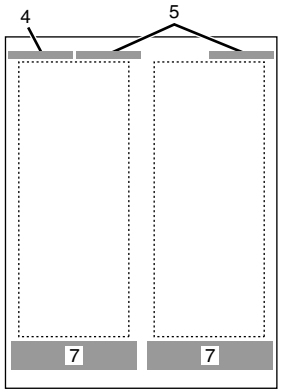
1843 TWIN



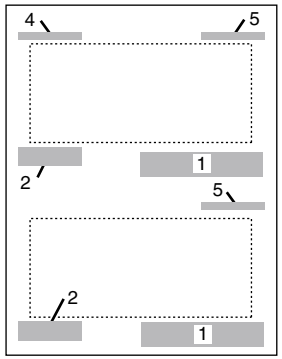
Pantomography TWIN



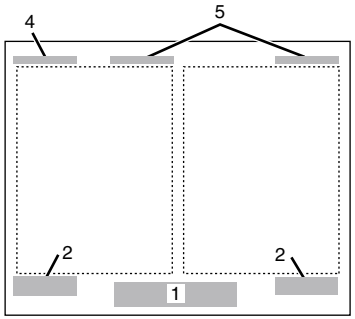
2on1 (different patients and sizes)



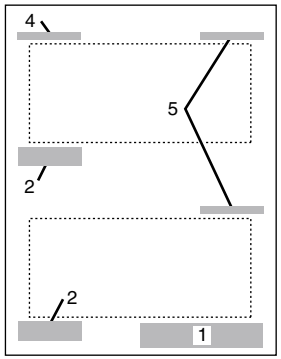
18×43cm 2on1 (different patients)



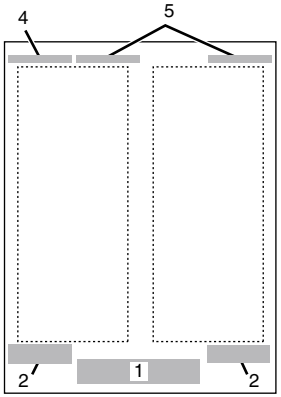
Pantomography 2on1 (different patients)



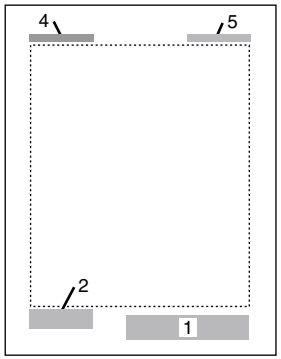
2on1 (same patient)



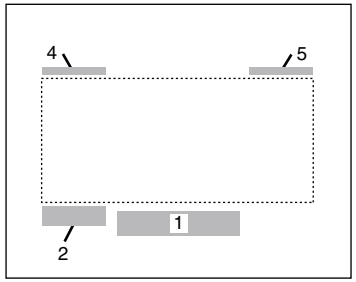
Pantomography 2on1 (same patient)



18×43cm 2on1 (same patient)



Routine Single



Pantomography Single

- Remarks -
1 : Patient information area
2 : Image processing parameter area
3 : Image processing parameter area
4 : Hospital name area
5 : Area for barcode, MPM code, etc.
6 : Patient/image processing parameter area
7 : Patient/image processing parameter area

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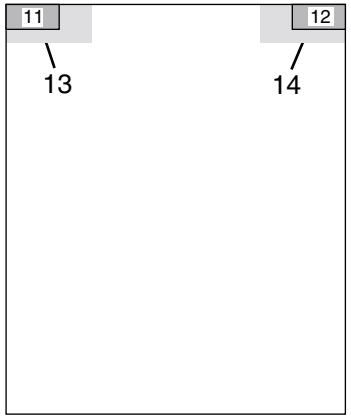
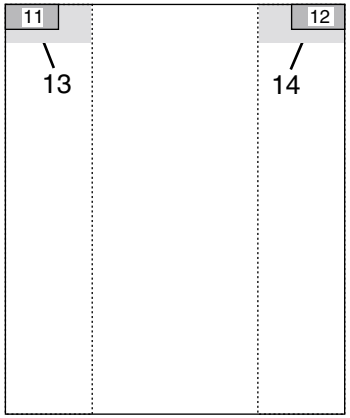
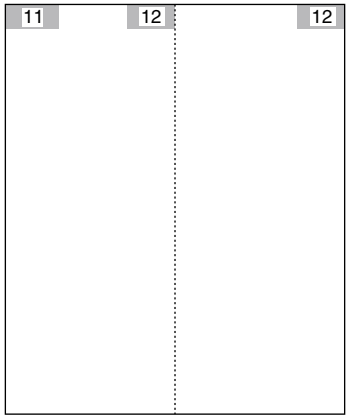
● 35×43cm film



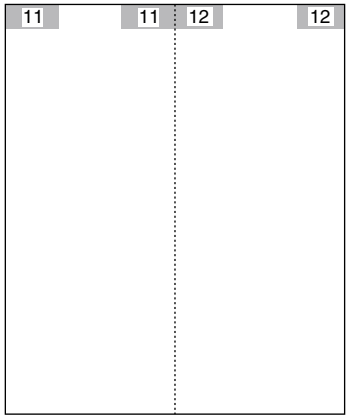
35×43cm/14"x17" Single



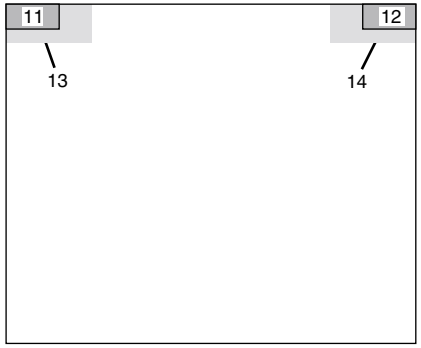
18×43cm Single



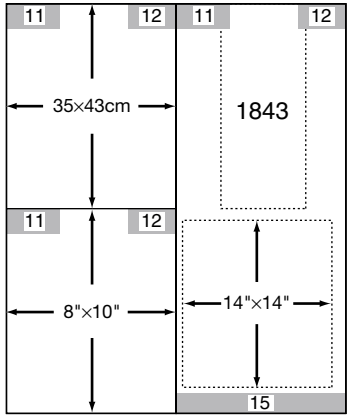
18×43cm TWIN, 2on1
(same patient)



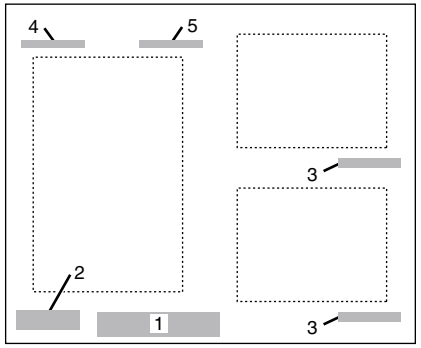
18×43cm TWIN, 2on1
(different patients)



43×35cm/17"×14" Single



Different images 4on1 (example)



3on1

- Remarks -

1 : Patient information area
2 : Image processing parameter area
3 : Image processing parameter area
4 : Hospital name area
5 : Area for barcode, MPM code, etc.
11 : Area 13 but reduced
12 : Area 14 but reduced
13 : Patient information area
14 : Image processing parameter area
15 : Patient information/image processing parameter area

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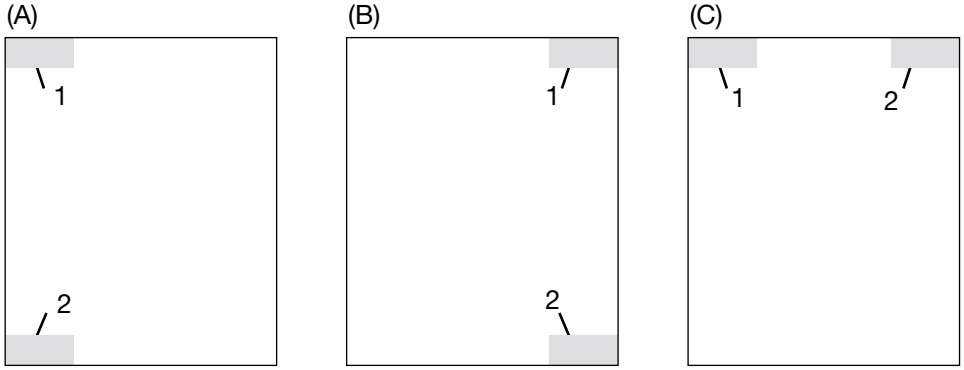
● 18×24cm film



18×24cm (HR) Single　18×24cm (HR) Single　18×24cm/8×10inch (ST) Single

For exposure menus other than mammography, images will be delivered in the (C) format.
For “right breast (DSR)” (MPM code: 0317) mammographic exposure menus, images will be delivered in the (A) format.
For other than “right breast (DSR)” (MPM code: 0317) mammographic exposure menus, images will be delivered in the (B) format.

- Legends -
1: Patient information area
2: Image processing parameter area

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➥ *REFERENCE*

With the LP (FM-DP L) in which the 26×36cm, 35"×43" and 18×24cm films can be used together, film sizes to be output change alternately as per conditions shows below.

- *35×43cm and 14"×14" (HQ image) size images in Single output* ➔ *35×43cm film*
- *Images of all sizes (both standard and HQ images) in 4on1 output* ➔ *35×43cm film*
- *8"×10"/18×24cm size images in Single output* ➔ *18×24cm film*
- *Other than the above* ➔ *26×36cm film*

2.2 Precautions of the Film Annotation Character Format

The tables below present precautions (differences between the CL and the FCR 5000 Series) to be observed when setting up a film annotation character format using the LP.

Table Differences between the CL and the FCR 5000 Series (1/2)

Item	FCR 5000 Series	CL
14"×14" film size	Can be used.	Cannot be used.
Character quality/position	Standard fonts cannot be changed.	Can be changed by directly editing the FilmStrFmt.env file. Character quality varies depending on the font used. The character display position can also be different from that used in the FCR 5000 Series.
Age display format	The age counted in the number of months and days can be specified in their maximum digit number.	The age counted in the number of months and days is fixed as follows: (Age in days : Max. 30 days) (Age in months: Max. 7 months)
Date display format	The date display format is possible in the Japanese era (“昭40.05.15”).	Only “S40.05.15” is available. (“S” cannot be represented by a kanji character.)
Film annotation character area size change for 14"×17" 100%-size image.	Both “Standard” and “Large” can be specified separately by for the area size.	Fixed to the two types : “Standard” and “Large”.
Energy subtraction/PEM parameter display	Either of the following three options can be selected: 1) Neither of them are displayed, 2) Only energy subtraction is displayed, 3) PEMparameters are displayed.	In addition to FCR 5000 Series selections, display of both energy subtraction and PEM parameters can be set up. [Currently not supported.]

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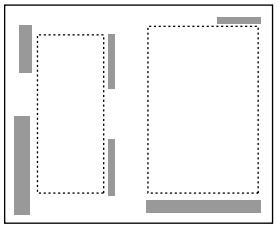
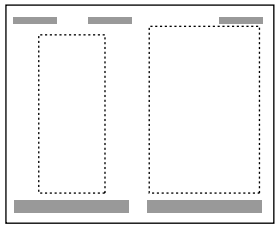
Table Differences between the CL and the FCR 5000 Series (2/2)

Item	FCR 5000 Series	CL
Film annotation characters 2	To display film annotation characters 2, technician’s code (GJ) display must be set up.	Not dependent, different from the FCR 5000 Series. Each item can be set up for whether to display or hide individually.
Whether the FINP 110 is available	To use the FINP110 for obtaining ID information, the Config file is used for making the maximum number of characters displayable longer for the patient ID, patient name, menu name, requesting department, and study number. Specified numbers of characters are applied, and an arbitrary value cannot be specified for each item.	Whether the FINP110 is used or not, the maximum number of characters displayable can be specified individually for the patient ID, menu name, requesting department, and study number. (However, if exceeding the preset length, the portion that exceeds will be cut off.)
Requesting department name display position in the 2on1 format	Top of the image.	Lower-left area of the image.
Film annotation character display position on the 2on1 format output of an image that includes pantomograph.	Film annotation characters were used to be output as follows with the FCR 5000 Series. 	A function to rotate some film annotation characters 90° is not supported. 

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3. Editing the FilmStrFmt.env File

//Being now prepared.//

4. Setting the DICOM Print Output Conditions

The DICOM Print output condition setup data are detailed below:

Item	Option	Meaning	Remarks
Media type (Media Type)	BLUE FILM	Film having a blue background	Routine setting.
	CLEAR FILM	Film having a transparent background	
	PAPER	Paper	
Film output destination (Film Destination)	MAGAZINE	Magazine	
	PROCESSOR	Processor	When the output destination is FN-PS
	BIN_I	Printer trays	
Film size (Film Size ID)	8IN×10IN	8"×10"	
	11IN×14IN	26×36 cm	
	14IN×17IN	14"×17"	
Image interpolation method (Mag Type)	REPLICATE	Replicate method	
	BILINEAR	Bilinear method	
	CUBIC	Cubic method	Routine setting
	NONE	No interpolation	
Image smoothing method (Smoothing Type)	A character string	A character string	This setting takes effect only when “CUBIC” is selected as the image interpolation method. As “a character string”, write the character string that is defined under “Conformance Statement” for the output destination printer. If the output destination is FN-PS, leave this column blank.
Identification key (Recognition Code)	REQ-SRV	Requesting department	Information for identifying the BIN number that is used to specify the film output destination (printer trays) (character string: information matching the information attached to image data)
	DEV-CODE	Image generation device (machine shipment control identification code)	
	MPM	MPM code	
	BODY-PART	Exposure anatomical region	
	NONE	No setting	
Default BIN number (Default BIN Number)	BIN-number-indicating number		BIN number for printing images without matching collation values
10-bit image output (10Bits Stored Supported)	Checked	Generates outputs.	Under normal conditions, the "Generates outputs" option should be selected.
	Unchecked	Does not generate outputs.	

DICOM Tag Mapping Function

When generating image outputs via DICOM, you can edit (copy, move, delete, or initialize) the tag information (image information). To edit the tag information, open the setup file (TagReplace.ini) and write desired data in the file. The procedure is described below:

◆ ***NOTE*** ◆

Do not use the TagReplace.ini file, which is used by any other equipment (such as the QA-WS), for the CL. Due to different file storage format adopted, an error will result.

1. **Open the "C:\Program Files\FujiFilm\IIP\Config" folder.**

2. **Open the TagReplace.ini file with Notepad (Notepad.exe).**

   ➥ ***REFERENCE***

   By default, nothing is written in the TagReplace.ini file.

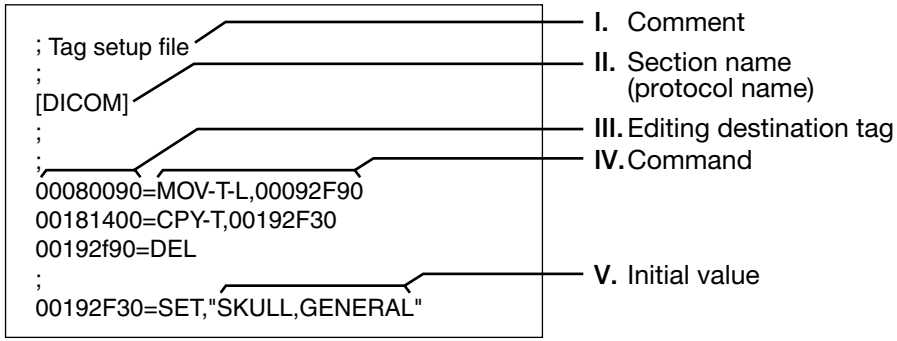
3. **Write desired tag information in the file in accordance with the format described later.**

   ➥ ***REFERENCE***

   As the editing target tag VR, only "character strings" are supported. If a tag VR entry in the setup file is not a character string, an error dialog box opens at CL startup.

4. **Save the TagReplace.ini file in UNICODE format and then close Notepad (Notepad.exe).**

■ TagReplace.ini file format



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I. Comment

Lines beginning with a semicolon (;) are commented out.

II. Section name (protocol name)

As the section name, the protocol name targeted for tag information editing must be written within square brackets ([ ]). Version A02 supports DICOM only.

III. Editing destination tag

Write the group number/element number of the editing destination tag information (enter a string of eight characters at all times).

IV. Command

Write a tag information editing command. See the table that is presented later.

V. Initial value

Write a character string in VR-compliant format to specify the initial value for a tag information element.

The following commands are available:

Command	Description	
CPY	Process	Copies an element from another tag.
	Format	Editing-destination-tag=CPY[-T],editing-source-tag -T : Performs an element copy operation after deleting spaces from the beginning and end of the source tag element. If, for instance, the source tag = "ΔΔABΔCΔ", the command copies "ABΔC" (Δ : space).
MOV	Process	Moves an element from another tag.
	Format	Editing-destination-tag=MOV[-T][-L],source-tag -L : Performs a move operation after setting the source tag element length to zero. -T : Performs an element move operation after deleting spaces from the beginning and end of the source tag element. If, for instance, the source tag = "ΔΔABΔCΔ", the command moves "ABΔC" (Δ : space).
DEL	Process	Deletes an element.
	Format	Editing-destination-tag=DEL[-L] -L : Sets the element length of the editing destination tag to zero.
SET	Process	Sets a fixed initial value for the element.
	Format	Editing-destination-tag=SET, "initial-value"

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◆ *NOTES* ◆

- *When writing the TagReplace.ini file, set data in compliance with DICOM VR. Also, exercise care to avoid internal data inconsistency.*
- *Even if the editing destination tag differs from the source tag in VR, the editing process is performed as far as they are both in character string form. Note, however, that even if the character string length is over the limit specified by the editing destination tag VR, the tag information is set as is without being checked.*
- *The editing process will not be performed if the associated tag or element and initial value do not exit on the source side.*
- *Other manufacturers' DICOM standard tags and Fuji's DICOM Private tags are supported. When editing a Private tag of a company other than Fuji, write the same element number as for the PrivateCreator entry in the Private.env file. For Fuji, the PrivateCreator element number is fixed at "2F".*
- *For the detailed information about Fuji's Private tags, refer to "DICOM Conformance Statement".*

CR-IR346/348CL Service Manual

SP: Service Parts

Control Sheet

Issue date	Revision number	Reason	Pages affected
10/20/2000	00	New release (FM2862)	All pages
12/10/2000	00	Revision (FM2950)	Pages I, II, 1, 6, 8, 10, 13, 15, 16
04/10/2001	01	Previous Chapter C “Error Information/Service Parts” divided and modified (FM2951)	All pages
05/30/2001	02	Revision (FM3027)	I, II, 3, 4
08/30/2001	03	Revision for software version A04 (FM3125)	I, II, 3, 4

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1. Service Parts List

1.1 How to Use Service Parts List

■ RANK

❍ Parts handling ID symbols used to identify the parts requiring special operation

The ID symbols are assigned to applicable parts. Parts without the R mark are replaced and handled in a regular manner.

Symbol	Description
R	Repairable parts
Q, T	Symbol for overseas use only

❍ Export regulation mark

This + mark is assigned to the parts subject to Export regulations. Parts without the + mark are not subject to Export regulations.

Symbol	Description
+	Parts subject to Export regulations

❍ Fault rankings used for estimating the recommended stock quality

All parts are assigned a symbol letter from A to E.

Symbol	Description
A	Consumable parts or parts that will be replaced at short intervals
B	Parts that may become faulty accidentally and have a relatively high failure rate
C	Parts that have a sufficiently long MTBF, but are expected to have a high failure rate
D	Parts that have a sufficiently long MTBF, but are expected to become faulty
E	Parts that are necessary for fault analysis or parts that may be needed in case of faults such as man-induced damage

❍ RANK column description

The symbols for Fault Ranking, Parts Handling, and Export regulation are assigned in order named. Thus, one to three letters are put in the RANK column.

■ REF. NO.

A number for indicating each part in the Service Parts Exploded Views.

■ PART NUMBER

A code number that is unique to each part. The rightmost letter of the code number has the following meaning.

❍ For hardware

The letter denotes the version number of a part. If parts have different version numbers, they are upward-compatible.

❍ For software

The letter denotes the software specifications.

■ PART NAME

This represents the general name of a part.

■ QTY.

QTY. represents the quantity of parts used in a unit or assembly.

■ REMARKS

Unique name of a part or its relevant information or note is described in this column.

■ SERIAL NUMBER

The units may contain different parts depending on their shipment control number. SERIAL NUMBER indicates the shipment control number to which the parts are applicable. If this column is blank, the parts are applicable to all the relevant units.

■ Recommended quantity of spare parts

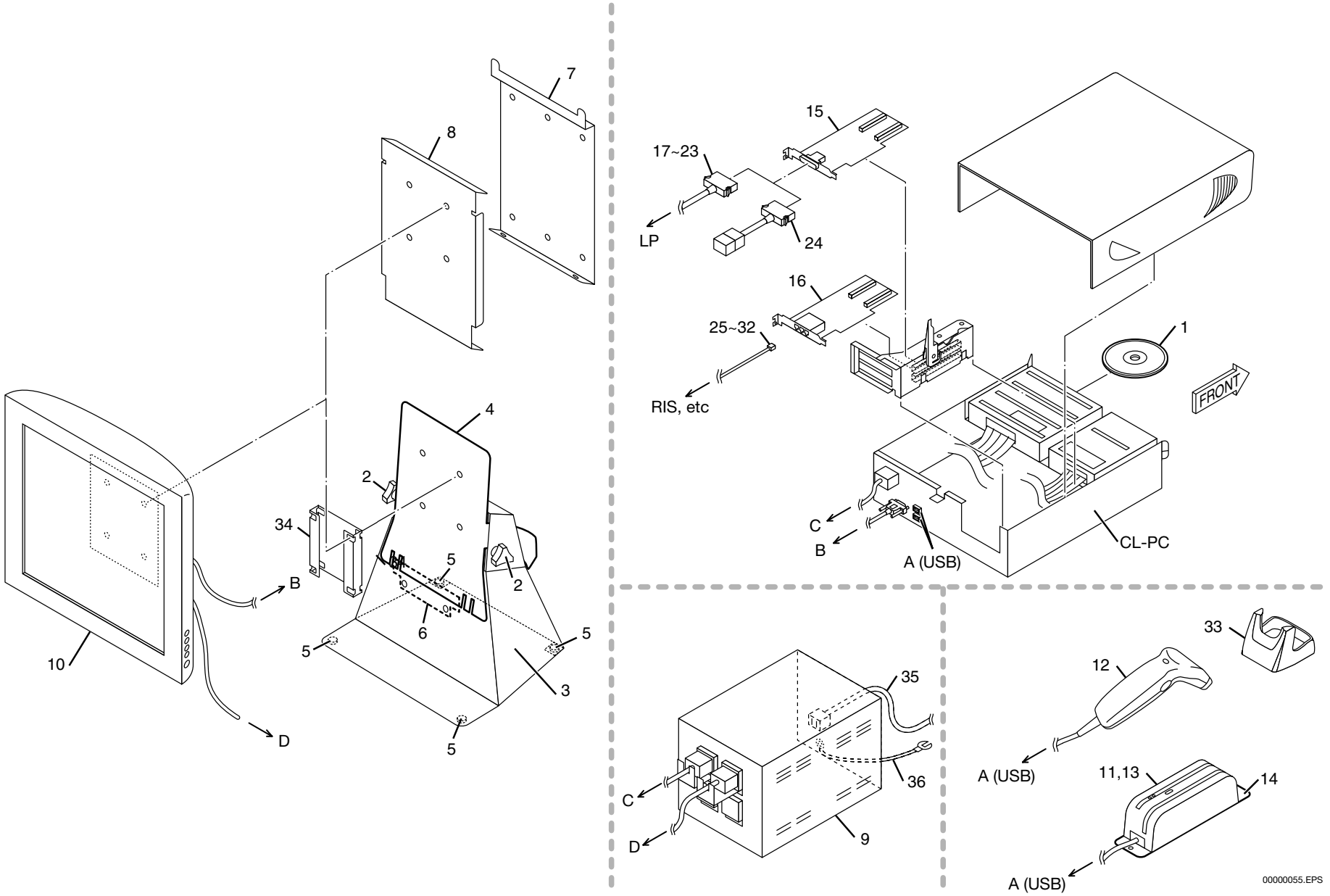
It is recommended as a rough guide to hold in stock a specified quantity of parts according to the rank (A to E) assigned to the parts. Parts to be replaced at periodic intervals must be held in stock separately.
Adjust the quantity of parts stock depending on the number of working units (N) as prescribed below.
Q: Quantity used in a single system

❍ N = 1
Rank A = 1 + Q x 0.3
Rank C = 1 + Q x 0.05
Rank D = 1 + Q x 0.02

❍ $2 \leq N \leq 10$
Rank A = 2 + N x Q x 0.3
Rank C = 2 + N x Q x 0.05
Rank D = 1 + N x Q x 0.02

❍ $11 \leq N \leq 300$
Rank A = 3 + N x Q x 0.3
Rank C = 3 + N x Q x 0.05
Rank D = 2 + N x Q x 0.02

1.2 Service Parts List



RANK	REF.	PART NUMBER	PART NAME	QTY.	REMARKS	SERIAL NUMBER
E	1	114Y5342001A	Software	1	Main unit software	
E	2	340N0205	Knob	2	For LCD stand	
E	3	357N1405	Table	1	For LCD stand	
E	4	357N1406	Table	1	For LCD stand	
D	5	367N0021	Rubber foot	4	For LCD stand	
E	6	401N0811	Retaining plate	1	For LCD stand	
E	7	357N1428	Table	1	For wall-mounting LCD	
E	8	357N1429	Table	1	For wall-mounting LCD	
D	9.1	813Y0142A	Power supply	1	CR-IR346CL Insulating transformer (only for units used in Japan)	
D	9.2	813Y0145A	Power supply	1	CR-IR348CL Insulating transformer (only for units used in Japan)	
CR	10.1	849N0067A	Monitor display	1	LCD (9415TD15/G2)	Functional repair
CR	10.2	849Y0094	Monitor display	1	LCD (9416TD15/H2-F)	Functional repair
D	11	852N0022A	Image Reader	1	MCR-JIS	
D	12	852N0023A	Image Reader	1	BCR	
D	13	852N0024A	Image Reader	1	MCR-ISO	
E	14	357N1408	Table	1	For wall-mounting MCR	
CR	15	113Y1405A	PEI01A	1	E-i/f serial board	
CR	16	113Y1502A	PSI04A	1	Serial i/f board	
E	17	136Y5869A	FCR i/f Cable	1	5m	
E	18	136Y5870A	FCR i/f Cable	1	15m	
E	19	136Y5871A	FCR i/f Cable	1	30m	
E	20	136Y5872A	FCR i/f Cable	1	45m	
E	21	136Y5873A	FCR i/f Cable	1	60m	
E	22	136Y5874A	FCR i/f Cable	1	100m	
E	23	136Y5875A	FCR i/f Cable	1	150m	
E	24	136Y5868A	Conversion cable	1	1.2m	
E	25	136Y5757	Cable	1	CL - RIS OP-09/VH-05 RIS terminal 3m (D-sub 9pin)	
E	26	136Y5758	Cable	1	CL - RIS OP-09/VH-06 RIS terminal 5m (D-sub 9pin)	
E	27	136Y5759	Cable	1	CL - RIS OP-09/VH-07 RIS terminal 10m (D-sub 9pin)	
E	28	136Y5760	Cable	1	CL - RIS OP-09/VH-08 RIS terminal 15m (D-sub 9pin)	
E	29	136Y5761	Cable	1	CL - RIS/X-ray OP-09/VH-01 3m for RIS terminal/X-ray equipment connection (D-sub 25pin)	
E	30	136Y5522	Cable	1	CL - RIS/X-ray OP-09/VH-02 5m for RIS terminal/X-ray equipment connection (D-sub 25pin)	
E	31	136Y5523	Cable	1	CL - RIS/X-ray OP-09/VH-03 10m for RIS terminal/X-ray equipment connection (D-sub 25pin)	
E	32	136Y5524	Cable	1	CL - RIS/X-ray OP-09/VH-04 15m for RIS terminal/X-ray equipment connection (D-sub 25pin)	
E	33	357S0024	Rack	1	For the BCR	
E	34	347N1785	Bracket	1	Spacer (exclusively for 9416TD15/H2-F)	
E	35	136Y8551	Cable	1	Hospital grade (only for units used in Japan), 136Y8550+fastener	
E	36	136Y8546	Cable	1	Hospital-grade option (only for units used in Japan)	

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CR-IR346CL Service Manual

IN-A: Installation – One RU Connection

Control Sheet

Issue date	Revision number	Reason	Pages affected
10/20/2000	00	New release (FM2862)	All pages
12/10/2000	00	Revision (FM2950)	Pages I, II, i, ii, 2~5, 8~10, 12, 13, 15, 17~24, 26~28, 30~35, 37~42, 46~50, 52~54, A1-1~4, A2-1, A3-1, A3-3, A4-1, A4-2, A4-7, A5-2~4, A6-1~3, A7-1, A7-3, A7-4, A8-1~8, A9-1~4, A10-1~4
12/10/2000	00	Changes in pagination (FM2950)	Pages 6~7, 11, 14, 16, 25, 29, 36, 43~45, 51, 55, 56
04/10/2001	01	Previous Chapter A “Installation” modified (FM2951)	All pages
05/30/2001	02	Revision for software version A02 and GX150 (FM3027)	I, II, IN-A1~50, Appx IN2-3, Appx IN3-1~Appx IN7-4
08/30/2001	03	Revision for software version A04 (FM3125)	I, II, 1, 3, 6, 12-16, 18-20, 22, 24, 28, 29, 31, 35, 36, 43, 45, App IN1-1, App IN2-2, App IN3-1, App IN4-2, 3, 6, App IN5-3, 4, 6, App IN6-1~4, App IN7-1~6, App IN8-1~4, App IN9-1, 2
08/30/2001	03	Changes in pagination (FM3125)	23, App IN1-2, 3,

1. CL Installation Conditions

This section states the PC installation conditions.

◆ ***NOTES*** ◆

Listed below are the abbreviations adopted in this chapter.

- *Application : AP*
- *Local printer : LP*
- *CR-IR346CL : CL*
- *CR-IR346RU : RU*
- *CL config data : CL-Config*
- *RU config data : RU-Config*

For the dimensions and weights of the monitor and peripherals, see the respective manuals that are supplied with them.

1.1 Dimensions and Weight

- Dimensions (width × height × depth)
  390 × 108 × 431 (mm)
- Weight
  Approx. 9.5 kg

1.2 Temperature and Humidity

Condition	Temperature	Humidity
Operating	10°C to 35°C	20% to 80% RH (non-condensing)
Non-operating	-40°C to 65°C	20% to 80% RH (non-condensing)

1.3 Places of Installation

■ Environmental conditions

Avoid installing the machine at the following places:

- Places where the temperature changes drastically
- Places near heaters or other heat sources
- Places where the machine is likely to be wet or submerged
- Places where the machine is likely to come into contact with any corrosive gas
- Dusty or dirty places
- Places where the machine is subjected to constant vibration or shock
- Places where the machine is subjected to excessive vibration or shock
- Places exposed to direct sunlight

Also, be sure that the monitor is not installed at the following places:

- Places where the monitor is surrounded, such as in a rack case
- Places whether the display surface is exposed to direct sunlight
- Places near a transformer, another monitor, a power line, or a 0.02 Gauss or more of AC magnetic field

1.4 Power Requirements

Power voltage/capacity	Remarks
100 - 240 VAC / approx. 0.11 kV	
Phase:	Single phase
Power frequency:	50/60 Hz
Grounding:	Ground resistance: 100Ω or less

2. Starting/Exiting the Service Utility

This section explains about the procedures for starting/exiting the Service Utility, which is used as a service utility tool during CL installation.

■ Startup procedure

The procedure for starting the Service Utility varies depending on whether the CL-PC power is ON or OFF.

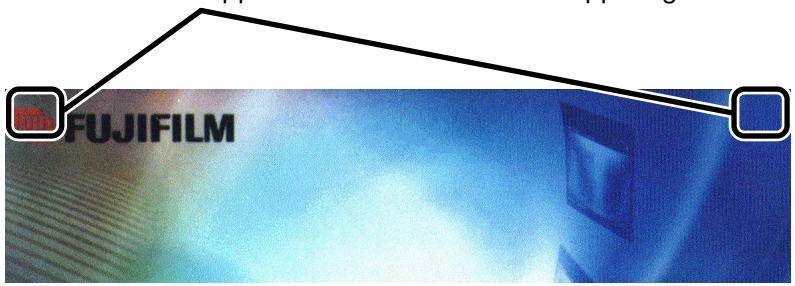
- When the PC power is OFF

1. **Turn ON the PC power.**

➔ Windows 2000 starts up. After about one minute, the CL-AP starts.

2. **When the initial window opens, sequentially click its upper left and upper right corners within a period of 5 seconds.**

Click the upper left corner and then the upper right corner.



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➔ The Service Utility starts and then the “IIP Service Utility” window opens.

- When the PC power is ON

1. **If the CL-AP is already running, hold down the <Shift> key and choose “Shut Down” on the FUJIFILM menu.**

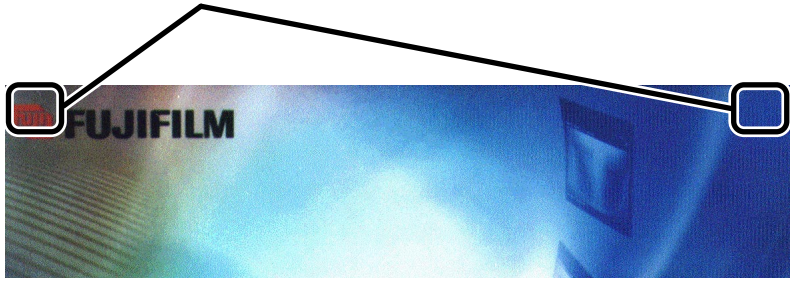
➔ The system returns to the desktop screen.

2. **From the Start menu, sequentially choose “Programs”, “Fuji Film”, and “FCR”.**

➔ The CL-AP starts in about one minute.

3. **When the initial window opens, sequentially click its upper left and upper right corners within a period of 5 seconds.**

Click the upper left corner and then the upper right corner.



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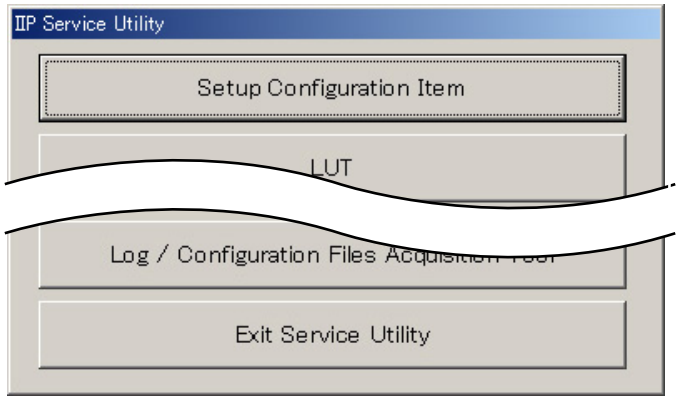
➔ The Service Utility starts and then the “IIP Service Utility” window opens.

■ Exit procedure

1. **Click [Exit Service Utility] on the "IIP Service Utility" window.**



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➔ The system returns to the desktop screen.

3. Installation Procedure Overview

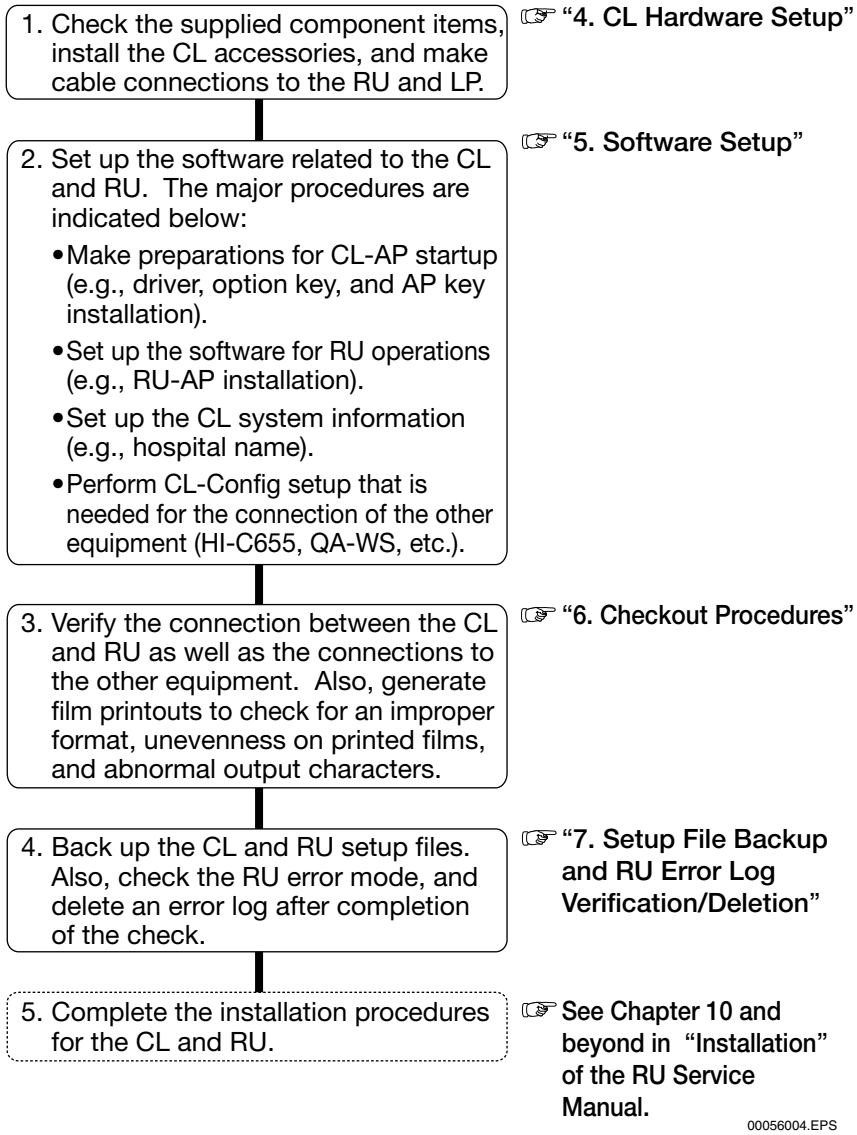
➤ *IMPORTANT*

Be sure that the following equipment is completely installed and set up.

- *CR-IR346RU*
  ☞ *See Chapters 1 to 8 of "Installation" of the RU Service Manual.*
- *Other equipment (LP, FN-PS551, HI-C655, RIS, etc.)*
  ☞ *See the installation instructions set forth in the respective service manuals.*

➤ *IMPORTANT*

- *Have on hand a CD-R disk that stores the CL's AP key (114Y5342002A), which is distributed for use in servicing.*
- *Use the AP key of version A00 or later.*


1. Check the supplied component items, install the CL accessories, and make cable connections to the RU and LP.
☞ "4. CL Hardware Setup"
2. Set up the software related to the CL and RU. The major procedures are indicated below:
•Make preparations for CL-AP startup (e.g., driver, option key, and AP key installation).
•Set up the software for RU operations (e.g., RU-AP installation).
•Set up the CL system information (e.g., hospital name).
•Perform CL-Config setup that is needed for the connection of the other equipment (HI-C655, QA-WS, etc.).
☞ "5. Software Setup"
3. Verify the connection between the CL and RU as well as the connections to the other equipment. Also, generate film printouts to check for an improper format, unevenness on printed films, and abnormal output characters.
☞ "6. Checkout Procedures"
4. Back up the CL and RU setup files. Also, check the RU error mode, and delete an error log after completion of the check.
☞ "7. Setup File Backup and RU Error Log Verification/Deletion"
5. Complete the installation procedures for the CL and RU.
☞ See Chapter 10 and beyond in "Installation" of the RU Service Manual.
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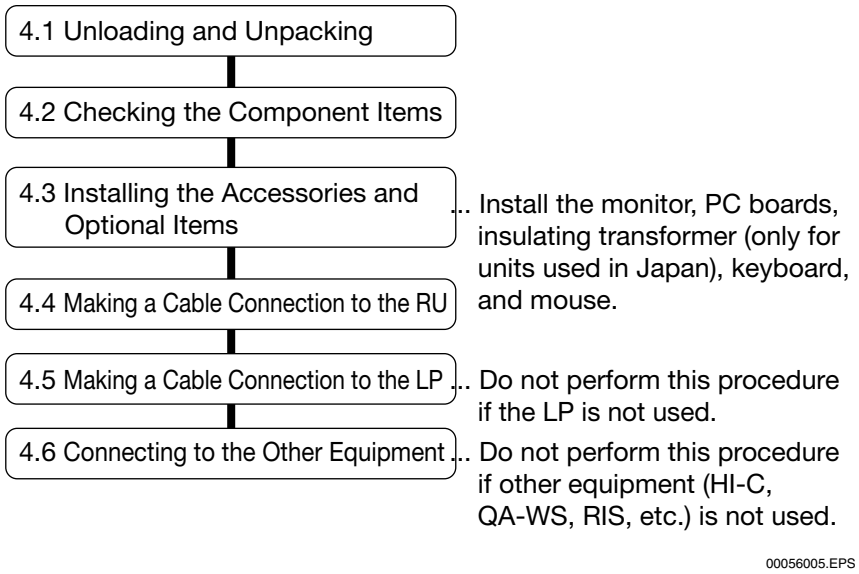
4. CL Hardware Setup


4.1 Unloading and Unpacking
4.2 Checking the Component Items
4.3 Installing the Accessories and Optional Items
... Install the monitor, PC boards, insulating transformer (only for units used in Japan), keyboard, and mouse.
4.4 Making a Cable Connection to the RU
4.5 Making a Cable Connection to the LP
... Do not perform this procedure if the LP is not used.
4.6 Connecting to the Other Equipment
... Do not perform this procedure if other equipment (HI-C, QA-WS, RIS, etc.) is not used.
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4.1 Unloading and Unpacking

Remove the following items from the packing box.

- PC (controller: DELL OptiPlex GX150)
- Monitor
- Insulating transformer (only for units used in Japan)
- Others (options, etc.)

◆◆ CAUTIONS ◆◆

When unloading, transferring, and unpacking the machine, observe the following precautions:

- ***Do not subject the machine to vibration or shock.***
  If the machine is unduly vibrated or shocked while it is unloaded or transferred, it may become damaged or defective.
- ***Avoid moisture condensation inside the machine.***
  If the machine is subjected to a drastic temperature change when it is transferred or unpacked, moisture condensation may occur inside the machine. If you turn ON the machine while moisture is condensed on its inner surface, the machine may become defective. To avoid such a problem, be sure to allow the machine to stand at a room temperature for a period of 1 hour or longer and then turn ON the power.

4.2 Checking the Component Items

Check that the following component items are fully supplied.

■ PC box

(Product code : IR 346 CL A⋆-A⋆⋆)
- PC
- Keyboard
- Mouse
- Power cable
- CL-AP (CD-ROM)
- XG-1 Standard Key Software (CD-ROM)

☞ For details of the component items, see the documentation supplied with the PC.

➥ *REFERENCE*

XG-1 Standard Key Software contains programs for the following functions:

- *Establishing the connection to the RU*
- *Receiving HQ images from the RU*
- *Performing TAS/DRC image processing*

■ Monitor box

(Product code : IR 346 DISPLAY LCD (15" monitor with the touch panel) or IR 346 DISPLAY CRT 17 IN (17" CRT monitor))
- Monitor
- Monitor cable
- Serial cable (only for the 15" monitor with the touch panel)
- Touch panel driver CD (only for the 15" monitor with the touch panel)

☞ For details on the component items, see the documentation supplied with the monitor.

☞ When a Super Resolution LCD Monitor SL-IC300 is used, see the SL-IC 300 Service Manual to check the component parts.

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5. Software Setup

... is described in the Release Bulletin.

5.2 CL Setup for RU Connection

This section describes the following procedures:

- Installing the RU M-Utility
- Installing the RU-AP and RU-Config in the FTP server
- Updating the RU-AP and RU-Config

➥ *REFERENCE*

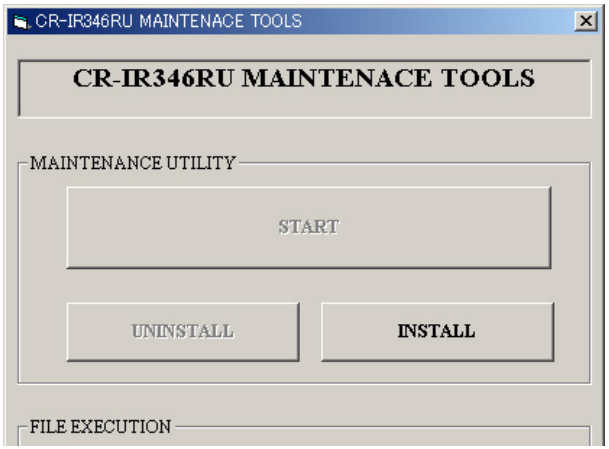
For the operations of the RU, it is necessary that the RU-AP and RU-Config data exist in the CL's FTP server.
The machine is shipped without installing the RU-AP and RU-Config in the CL's FTP server. It is therefore necessary to install the RU-AP and RU-Config in the CL's FTP server.

For the installation of the RU-AP and RU-Config, the use of the RU M-Utility is required.
The RU M-Utility is a utility (also referred to as the FCR TOOL) that exercises RU-AP installation, RU-Config setup, data backup, and other functions.
Since also the RU M-Utility is not installed in the CL prior to shipment, it needs to be installed upon machine installation.

5.2.1 Installing the RU M-Utility

1. **Have on hand the CD that is supplied with the RU. Insert this CD into the CD-ROM drive.**

➔ After a while, the following window opens.



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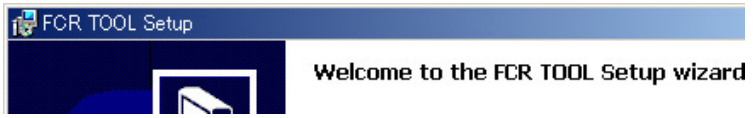
2. Click **INSTALL**.

➔ The RU M-Utility installation start window opens.



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3. Click **Next >**.

➔ The "FCR TOOL Setup/Read to Install..." window opens.

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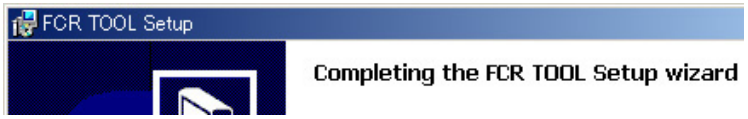
4. Click Install.

➔ After the completion of installation, the “FCR TOOL Setup/ Completing the...” window opens.



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5. Click Finish.

➔ The system returns to the “CR-IR 346RU MAINTENANCE TOOLS” window.

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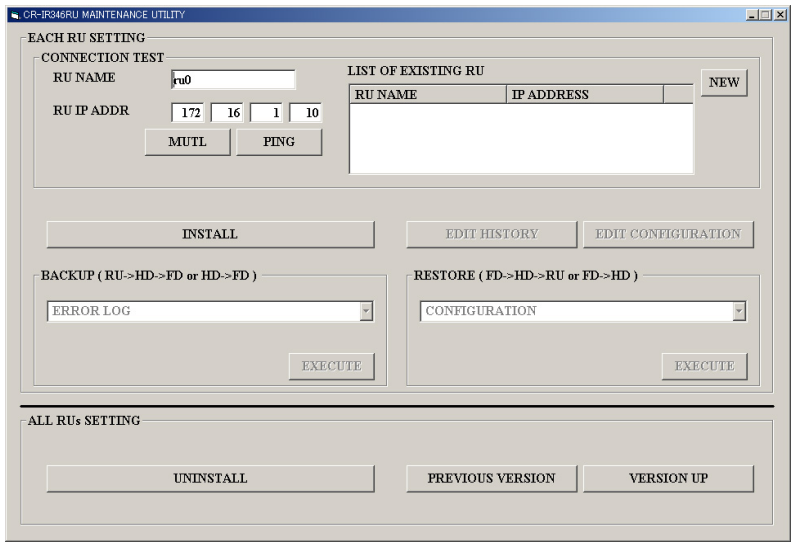
6. Click START.

➔ The “CR-IR 346RU MAINTENANCE UTILITY” main menu window opens.

● Main menu window



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5.2.2 Installing the RU-AP

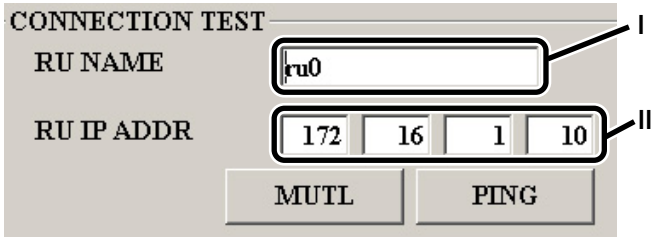
Verify the network connection between the CL and RU, and then install the RU AP in the CL’s FTP server.

■ Verifying the network connection between the CL and RU

◆ *NOTES* ◆

- *Make sure that the RU power cable is connected to the breaker and the breaker is turned ON.*
- *Exit all running applications (particularly Explorer) other than the RU M-Utility.*

1. From the main menu, perform the following checks:



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I. Check that the RU host name (ru0) is entered.
II. Check that the RU IP address (172.16.1.10) is entered.

◆ *NOTES* ◆

- *Never change the settings (RU host name and IP address).*
- *The host name entered here serves as the actual RU host name (it is written in the FLASH ROM as the RU host name).*

2. Click PING.

➔ The process for checking the connection to the RU starts.

3. **Verify the network connection to the RU.**

The connection is normal if the following message appears four times.

Reply from 172.16.1.10: bytes=32 time<10ms TTL=128

➥ ***REFERENCE***

Values for "time<10ms" and "TTL=128" in the message above vary depending on the network status. Connection remains normal even though such values vary.

➥ ***REFERENCE***

If the connection to the RU cannot be verified, it is conceivable that the following causes may exist:

- *Improper cable connections → Check the cable connections again.*
- *RU or CL network board problem → Restart the system.*
- *Other*

If you still cannot verify the connection, you can restore the network connection by initializing RU memory to forcibly return the IP address stored in the RU main unit to the default.

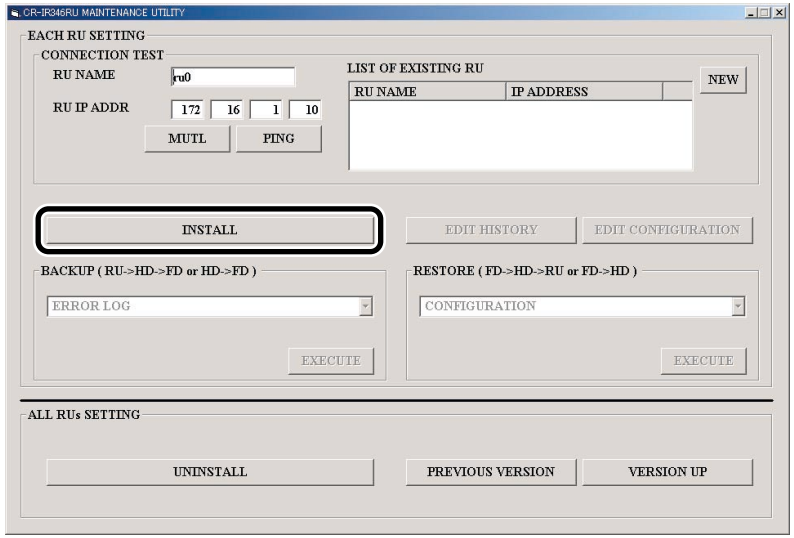
☞ *For details of the procedure to restore the network connection to the CL by initializing memory, see "3.1 CL/RU Connection Recovery Procedure to be Performed upon RU Memory Initialization under "MT: Machine Troubleshooting".*

4. **Click the ✕ mark at the upper right corner of the command prompt window.**

➔ The system returns to the main menu.

■ Installing the RU-AP in the FTP server

● Main menu window



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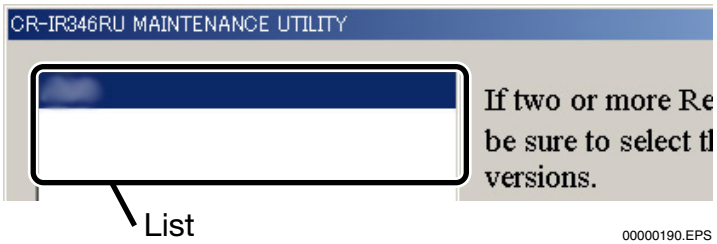
1. **Click "INSTALL" on the main menu.**

➔ The "Insert the CD-ROM into a drive" window opens.

2. **Since the CD carrying the RU-AP is already inserted into the CD-ROM drive, just click** OK.

➔ The RU-AP version selection window opens.

3. **Select the RU-AP version from the list, and then click** OK.



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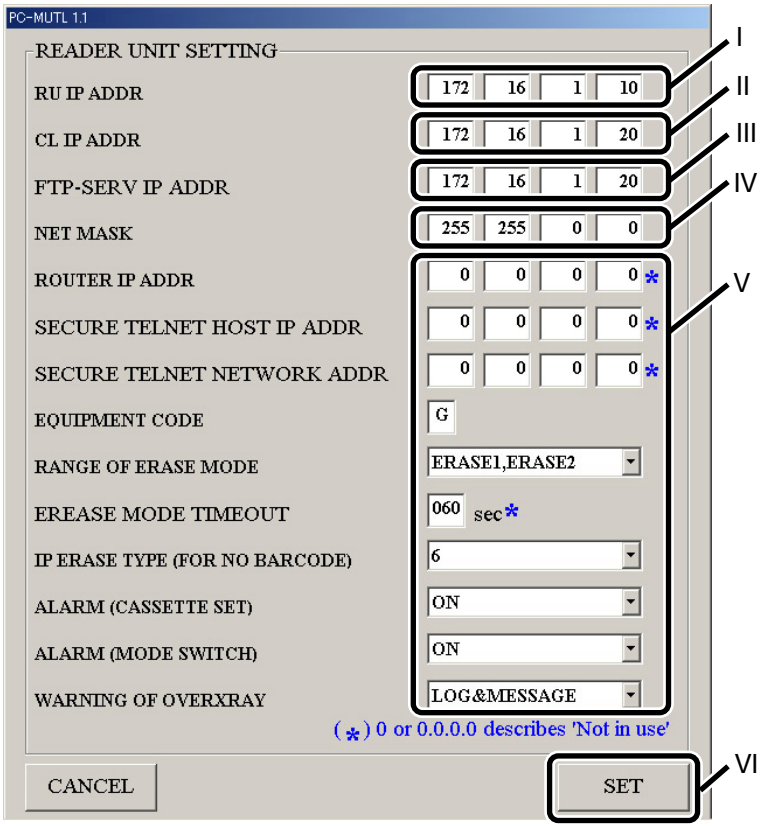
➔ The "READER UNIT SETTING" window opens.

4. Complete the following setup steps:

◆ ***NOTE*** ◆

Never change the "RU IP ADDR", "CL IP ADDR", and "NET MASK" settings.



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I. Verify that the entry is 172.16.1.10.

II. Verify that the entry is 172.16.1.20.

III. Verify that the entry is 172.16.1.20.

IV. Verify that the entry is 255.255.0.0.

V. Change the settings in the following table as needed.

Config Setup Item	Setup Range	Default	Remarks
ROUTER IP ADDR	IP address setup range	0.0.0.0	Route address (Do not change the setup.)
SECURE TELNET HOST IP ADDR	IP address setup range	0.0.0.0	IP address available for the TELNET.
SECURE TELNET NETWORK ADDR	IP address setup range	0.0.0.0	Range of the IP address available for the TELNET.
EQUIPMENT CODE	A–Z	A	Machine serial ID code of the RU. (This code is printed on film.)
RANGE OF ERASE MODE	• ERASE 1 • ERASE 1, ERASE 2	ERASE 1	Specifies the erasure mode range. ERASE 1: Primary erasure can be selected. ERASE 1, ERASE 2: Both primary and secondary erasures can be selected.
ERASE MODE TIMEOUT	0 to 999 (sec)	060	Erase mode timeout setting.
IP ERASE TYPE (FOR NO BARCODE)	• 5, 6 • 6	6	Setup needed if no barcode reader is installed. 5, 6: Types V and VI mixed. 6 : Type VI
ALARM (CASSETTE SET)	• ON • OFF	ON	Sets alarm ON/OFF when cassette is inserted. ON : Alarm sounds. OFF: Alarm does not sound
ALARM (MODE SWITCH)	• ON • OFF	ON	Sets alarm ON/OFF when erasure processing is selected. ON : Alarm sounds. OFF: Alarm does not sound.
WARNING OF OVERXRAY	• LOG & MESSAGE • LOG • NONE	LOG & MESSAGE	Selects X-ray over-exposure IP warning method. LOG & MESSAGE: Warning by log and message. LOG : Warning by log. NONE: No warning issued .

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VI. Click SET.

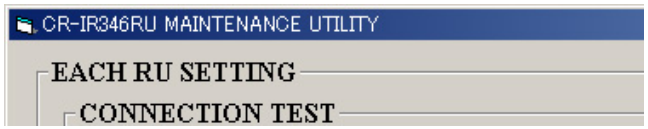
➔ Upon completion of RU-AP installation, the display shows the message “Completed”.

The data set from the “READER UNIT SETTING” window is then registered as RU-Config data.

☞ For the RU-Config data editing procedure, see “Appendix 2 Setting the RU-Config.”

5. Click OK.

➔ The system returns to the main menu.



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◆ ***NOTE*** ◆

At this stage, the RU-AP and RU-Config are not written in the RU FLASH ROM yet.
They are written in the FLASH ROM of the RU when the RU-AP and RU-Config are updated as explained later.

☞ *See “5.2.3 Updating the RU-AP and RU-Config.”*

6. Click the ✕ mark at the upper right corner of the window.

➔ The system returns to the “CR-IR346RU MAINTENANCE TOOLS” window.

7. Click EXIT.

➔ The system returns to the desktop screen.

8. Remove the CD from the drive.

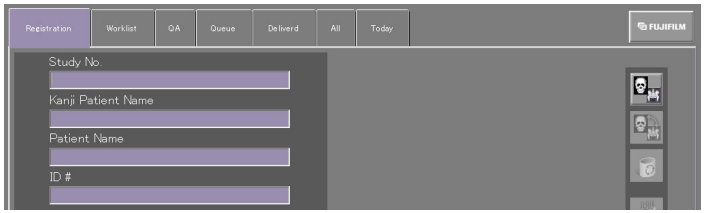
5.2.3 Updating the RU-AP and RU-Config

Starting up the CL updates the RU-AP and RU-Config in the RU’s FLASH ROM.

1. Start up the RU (turn ON the power). If it is already running, you do not have to do anything here.

2. From the Start menu, select “Programs”, “Fuji Film”, and then “FCR”.

➔ The CL-AP starts up in about one minute.



00000195.EPS

3. When all the LEDs on the RU panel come on (three successive short beeps are generated), the REBOOT button appears on the CL monitor. Click this button.

◆◆ CAUTION ◆◆

While the RU panel LEDs are illuminated, never turn OFF the RU because its CPU board may become damaged.

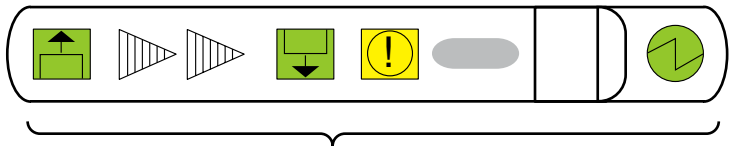
➥ REFERENCE

If the contents of the RU's FLASH ROM are the same as the RU-AP and RU-Config data stored in the CL's FTP server, steps 3. and 4. will be skipped.

☞ *See "5.2 Mechanism for RU-AP/RU-Config Update" in "MD: Machine Description".*

☞ *See "3.3 Messages Displayed upon an RU-AP/RU-Config Update" in "MT: Machine Troubleshooting".*

● RU



All the LEDs on the RU panel come on. 00000196.EPS

● CL

A message is displayed to indicate that the RU is being updated. 00000197.EPS

➔ The RU-AP (or RU-Config) update process ends.

4. When all the LEDs on the RU panel come on again (the system repeats a single-beep and two-successive-beep cycle), the REBOOT button appears on the CL monitor. Click this button.

◆◆ CAUTION ◆◆

While the RU panel LEDs are illuminated, never turn OFF the RU because its CPU board may become damaged.

◆ NOTE ◆

If the RU-Config is updated in step 3., step 4. will be skipped.

➔ The RU-Config update process ends.

The RU initialization message appears. The RU becomes operative in about one minute.

● CL window

00000247.EPS

5. Click FUJIFILM.

➔ A menu opens.

6. Hold down the <Shift> key and click Shut Down.

➔ The CL-AP exits returning you to the desktop screen.

➥ ***REFERENCE***

If you click [Shut Down] without holding down the <Shift> key, both the CL-AP and Windows shut down.

5.3 Setup with Service Utility

Use the Service Utility to set up the following items:

- CL system information
- IDT functionality
- LP information (required only when an LP is connected)
- Menu database replacement (required only for equipment used abroad)

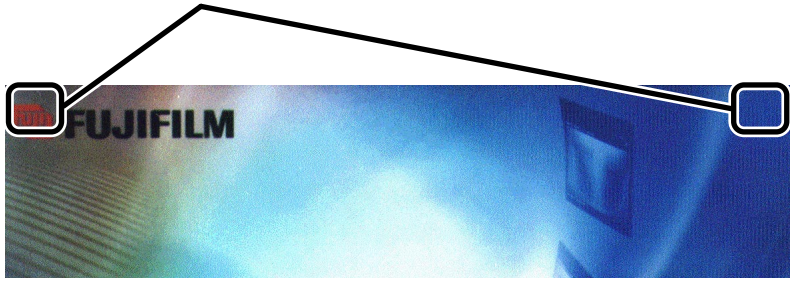
5.3.1 Starting the Service Utility

1. Click Start and then sequentially choose “Programs”, “Fuji Film”, and “FCR”.

➔ The CL-AP starts up.

2. Within a period of 5 seconds after the initial window opens, sequentially click the upper left and upper right corners of the window.

Click the upper left corner and then the upper right corner.



00000118.EPS

➔ The Service Utility starts. The “IIP Service Utility” window opens.

00000403.EPS

➥ ***REFERENCE***

If you cannot complete step 2 from the initial window within a 5-second period and allow the AP to start up, perform the following steps to start the Service Utility:

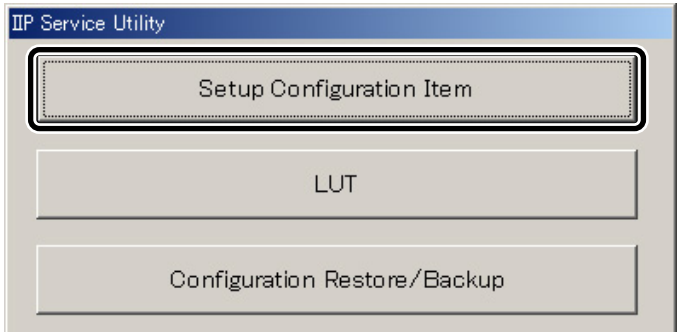
1. *To exit the AP, hold down the <Shift> key and choose “shut down” on the* FUJIFILM *menu.*
2. *From the “Start” menu, sequentially choose “Programs”, “Fuji Film”, and “FCR”.*
3. *When the initial window opens, sequentially click its upper left and upper right corners within a period of 5 seconds.*

5.3.2 CL System Information Setup

Complete setup concerning CL system information and IDT functionality as directed in this section.

■ Setting the system information

1. From the “IIP Service Utility” window, click [Setup Configuration Item].



00000159.EPS

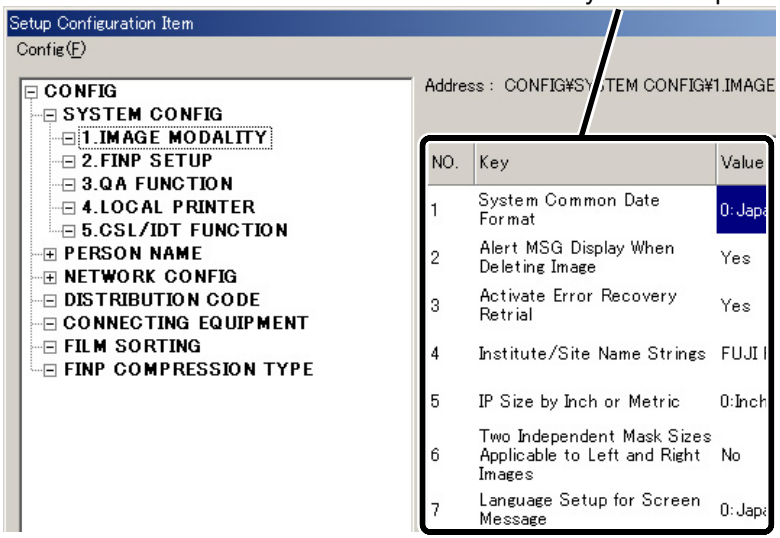
➔ The “Setup Configuration Item” window opens.

2. Click the ⊞ sign within ⊟ SYSTEM CONFIG in the “Setup Configuration Item” window.

3. Click 1.IMAGE MODALITY.

➔ The CL system information setup items appear.

Items for CL system setup



00000132.EPS

4. Enter setup data as directed below:

❍ Make a date format selection by double-clicking

0:Japanes date(S62.10.07) for 1 System Common Date Format.

- 0: FJapanese date (S62.10.07) [Default]
- 1: FANSI long date (1987.OCT.07)
- 2: FANSI short date (1987.10.07)
- 3: FAmerican long date (OCT.07.1987)
- 4: FAmerican short date (10.07.1987)
- 5: FEuropean long date (07.OCT.1987)
- 6: FEuropean short date (07.10.1987)

◆ NOTE ◆

Use "System Common Date Format" to specify the date format. If you change the date format, the following items of information are changed to match the newly selected format.

- *Date output on film*
- *Format for birth date input*
- *Date displayed by CL-AP*
- *Other date indications*

❍ Make a hospital name entry (one-byte characters) by double-clicking

FUJI FILM HOSPITAL for 4 Institute/Site Name Strings.

◆ NOTE ◆

Use "Institute/Site Name Strings" to enter a hospital name string of one-byte characters for use in the CL system.

The default hospital name is "FUJI FILM HOSPITAL". Change this entry to a hospital name string of one-byte characters as defined by a specific hospital.

You can enter a string of up to 60 characters.

❍ Set the IP size unit system (inch or metric) for

5 IP Size by Inch or Metric.

◆ NOTE ◆

Set the IP size unit system (inch or metric) that the RU can handle.

❍ Use 7 Language Setup for Screen Message to specify the language to be used.

- 0: Japanese
- 1: English
- 2: German
- 3: French
- 4: Spanish
- 5: Italian
- 6: Swedish
- 7: Finnish
- 8: Danish
- 9: Norwegian
- 10: Korean

❍ Double-click 富士フイルム病院 for 8 Institute/Site Name in Two-Byte Characters to enter a hospital name (consisting of two-byte characters).

◆ *NOTE* ◆

Use "Institute/Site Name in Two-Byte Characters" to enter a hospital name string of two-byte characters for use in the CL system.
The default hospital name is "富士フイルム病院 ". Change this entry to a hospital name string of two-byte characters as defined by a specific hospital.
You can enter a string of up to 15 two-byte characters.

5. **Change the other items of system information as needed.**

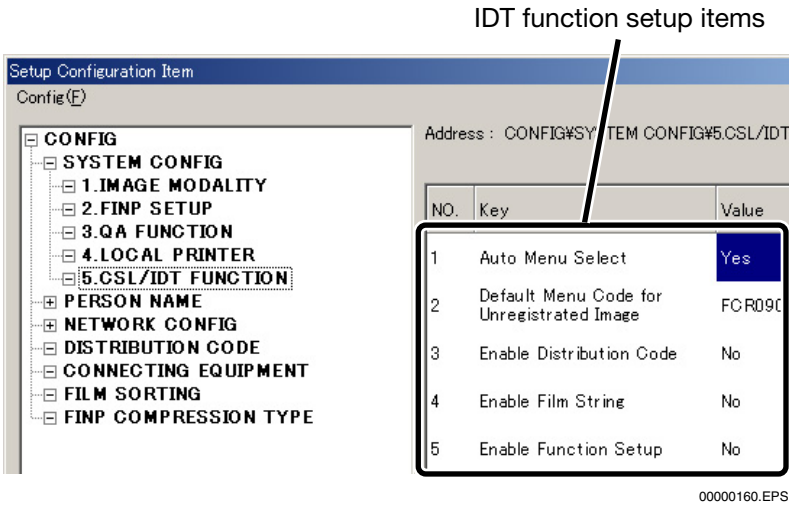
Item number	Description
2	Confirmation window display for examination list deletion
3	Setup of a process to be performed after an abnormality occurrence
6	2in1 format with no masking
14	System ID
15	Password use for user utility access

☞ For details on individual setup items, see "3.4 Config Details-1. IMAGE MODALITY" under "MU: Maintenance Utility".

■ Setting the IDT functionality

1. **From the "Setup Configuration Item" window, click 5.CSL/IDT FUNCTION.**

➔ The IDT function setup items appear in the right-hand area of the window.



00000160.EPS

2. **Edit the IDT functionality setup as needed.**

☞ For details on individual setup items, see "3.6 Config Details-5. CSL/IDT FUNCTION" under "MU: Maintenance Utility".

3. **From the "Config (F)" menu, choose "Save".**

➔ A window opens, prompting you to confirm the setup data to be saved.

4. **Click Yes.**

➔ The system saves the setup data.

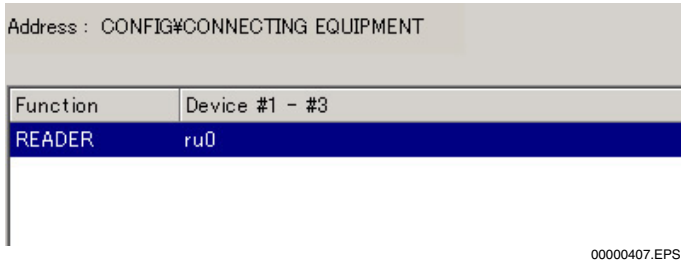
5.3.3 Setting the LP Information

When the LP is connected to the CL, perform the "■ Registering the LP" procedure below.

■ Registering the LP

1. From the "Setup Configuration Item" window, click ⊟ CONNECTING EQUIPMENT.

➔ A list of registered equipment appears in the right-hand area of the window.



2. Click New.

➔ The "FTP CONNECTION" window opens.

3. Perform the following setup steps:

❍ Click the downward arrow mark in the Function : field and select the function (PRINT) of the connected device.

❍ Click the downward arrow mark in the Equipment #1 : field and specify the device (LOCAL).

➥ ***REFERENCE***

If the LP option key is not installed, you cannot choose "LOCAL".

4. Click OK.

➔ You are returned to the "Setup Configuration Item" window.

5. From the "Config (F)" menu, choose "Save".

➔ A window opens, prompting you to confirm the setup data to be saved.

6. Click Yes.

➔ The system saves the setup data.

■ Changing the LP system information

If the following printer use is intended, change the LP system information.

❍ When the following old-type printers are used.
CR-LP414N/IM2636N, FL-IM3543N/FL-IM3543MN

❍ When the cable connecting the printer to the CL exceeds 60 m in length.

❍ When the film sort function is to be used.

1. From the "Setup Configuration Item" window, click ⊟ 4. PRINTER.

➔ The LP configuration setup items appear in the right-hand area of the window.

2. Change the LP system information.

☞ For details on individual setup items, see "1. Setup Necessary When Connecting the LP" under "Print Output Function" in "FR1: Function-specific Reference".

3. From the "Config (F)" menu, choose "Save".

➔ A window opens, prompting you to confirm the setup data to be saved.

4. Click Yes.

➔ The system saves the setup data.

6. Checkout Procedures

6.1 Checking the Connection between the CL and RU

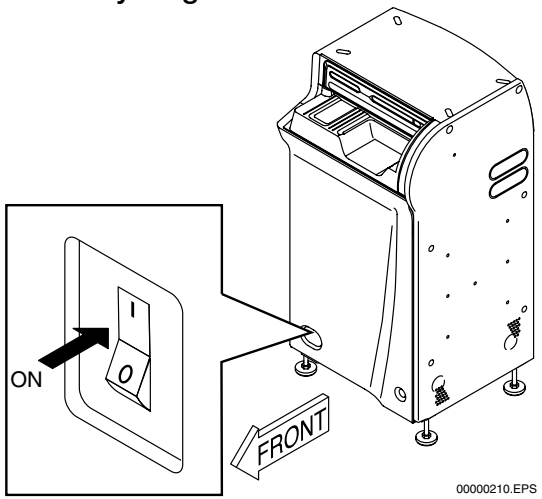
6.2 Checking the Connection between the CL and Other Equipment

6.3 Checking the Output Image ... For output image verification, check for an improper format, image irregularities, and an incorrect film annotation character format.

00056007.EPS

6.1 Checking the Connection between the CL and RU

1. **Turn ON the RU power. If it is already ON, you do not have to do anything here.**



00000210.EPS

2. **From the Start menu, sequentially choose "Programs", "Fuji Film", and "FCR".**

➔ The CL-AP starts up in about one minute.

➔ After a while, the RU initialization process begins.
The CL-AP window shows a message to indicate that the RU is being initialized.

◆ ***NOTE*** ◆

This message will not appear if the RU has been started up before the CL-AP.

An RU initialization message is displayed.

00000198.EPS

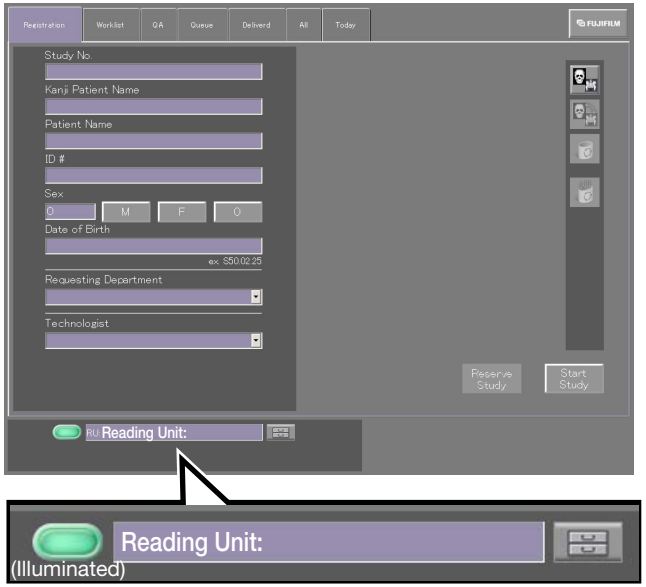
➔ When the RU initialization process ends, the CL-AP window reads "Reading Unit:".

3. From the CL user window (Registration), set patient data and exposure menu, and then click Start Study.

☞ For details on the patient data input procedure, see the CL Operation Manual, “FCR XG-1 CR-IR346CL.”

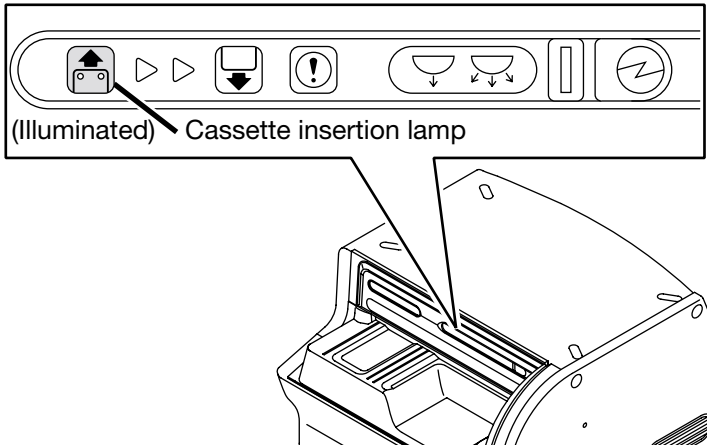
➔ Both the CL-AP window lamp and the RU panel’s cassette insertion lamp go on.

● CL window



00000209.EPS

● RU panel



00000207.EPS

4. Set a cassette in the cassette setting unit.

➔ When a certain period of time elapses after the start of an IP read process, the read image appears on the CL monitor.

00000200.EPS

6.2 Checking the Connection between the CL and Other Equipment

Check the connection to the following equipment:

- HI-C654/HI-C655/QA-WS/ODF (FINP connection)

  ☞ See “3. Verifying the Connection”, under “CL + HI-C/QA-WS/OD-F (FINP : Image Input/Output)” in “OE2: Connecting the CL to Other Equipment”.

- HI-C655/QA-WS/Synapse server/Yokogawa server (only for units used in Japan) (DICOM connection)

  ☞ See “3. Verifying the Connection”, under “CL + HI-C655/QA-WS (DICOM CR Storage)” in “OE3: Connecting the CL to Other Equipment”.

- Other manufacturer’s equipment (DICOM CR Storage connection)

  ☞ See “3. Verifying the Connection”, under “CL+Other (DICOM CR Storage: transfer of processed images)” in “OE4: Connecting the CL to Other Equipment”.

- DRYPIX, FM-DP L (DICOM Print)

  ☞ See “3. Verifying the Connection”, under “DRYPIX/FM-DP L (DICOM Print)” in “OE5: Connecting the CL to Other Equipment”.

6.3 Checking the Output Image

Run the following checks on the output image:
- Format check
- Irregularity check
- Film annotation character format

■ Preparations

1. **Have on the hand the IP to be used. Subject this IP to primary erasure.**

☞ For details on the primary erasure procedure, see “2.4 Performing the Image Erasure Process Only (Primary Erasure)”, in the RU Operation Manual.

◆ *NOTES* ◆

• Check the output image with all IP sizes that are used in the hospital.
• Use the Type VI IPs.
• Make sure that no important image data (e.g., patient images) is exposed on the IPs to be checked.

2. **Expose the IP to 1 mR of radiation.**

➥ *REFERENCE*

If the IPs cannot exactly be exposed to 1 mR of radiation, use the following IP exposure conditions as a guide. Note, however, that the following conditions are used as a guide for standard IP setup.

Distance : 1.8 m
Voltage : 80 kV
Current : 50 mA
Time : 0.013 sec

3. **Select “Sensitivity” from “Test” as the exposure menu.**

4. **Set a cassette in the cassette setting unit.**

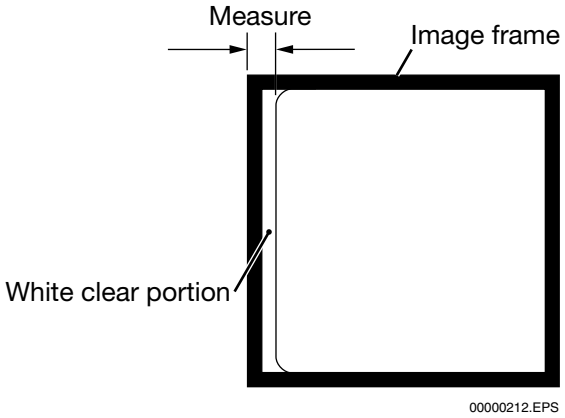
➔ The image is read and transferred to the CL.

5. **Click** **at the upper right corner of the CL window.**

➔ The image printout process starts.

■ Checking the format

1. **Check that the white clear portion of the resulting output film does not exceed 2 mm in width (when an 100% image output is generated).**



◆ *NOTE* ◆

If the image is not generated at a magnification setting of 100%, calculate as follows to check the white clear portion.

$$\left[2 \times \frac{\text{reduction ratio*}}{100}\right] \text{mm}$$

* The reduction ratio is printed at the bottom of a film output image.

☞ If any abnormality is encountered, see “Troubleshooting” of the RU Service Manual.

■ Checking irregularities

1. **Check that the output film and the image displayed on the CL monitor are both free from peculiar irregularities.**

☞ If any abnormality is found, see “Troubleshooting” of the RU Service Manual.

■ Checking the film annotation character format

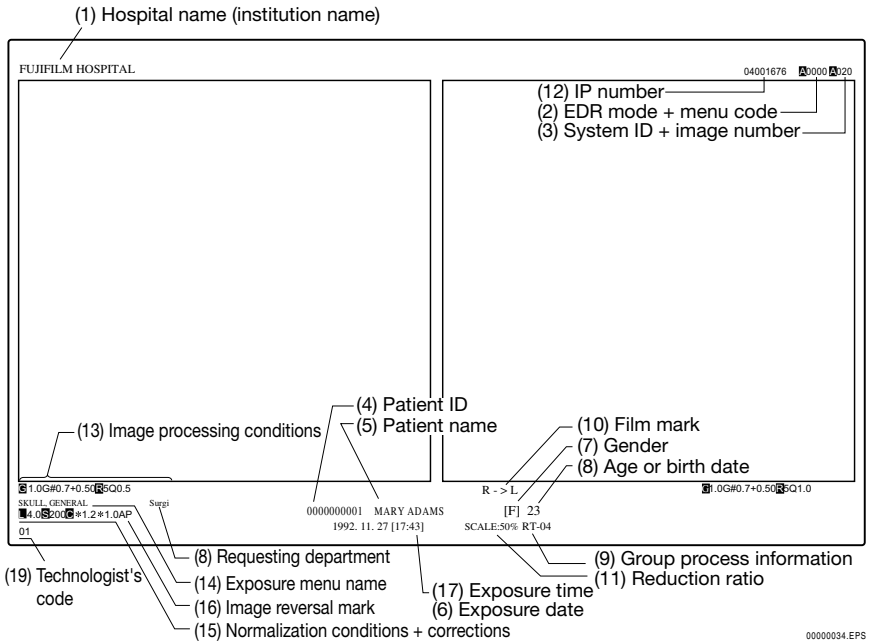
1. **Check to see that the film annotation character format information entered from the CL is properly printed out onto the film.**

Also, check for blurred, chipped, or otherwise abnormal character printings.

➥ *REFERENCE*

The example in the figure below represents a printout that would be generated when the default film annotation character format is used (image size: 35 × 35cm (14" × 14"); print format: TWIN).

When the default settings are used, character strings (1) through (19) are printed out.



☞ If any abnormality is found, see "Print Output Function" in Function-Specific Reference Guide.

■ Exiting the CL-AP

1. **Click**

.

➔ A menu opens.

2. **Hold down the <Shift> key and click**

.

➔ The CL-AP exits returning you to the desktop screen.

➥ *REFERENCE*

If you click [Shut Down] without holding down the <Shift> key, both the CL-AP and Windows shut down.

7. Setup File Backup and RU Error Log Verification/Deletion

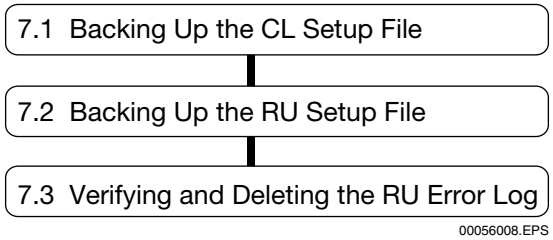
This section explains about the procedures for backing up the CL and RU setup files and verifying/deleting the RU error log.

When making backups, have the following items on hand:

• Three DOS-V formatted FDs (one for the RU and two for the CL)

◆ *NOTE* ◆

Never turn OFF the CL or RU power during a backup process. If the power turns OFF, the machine may fail to start up.



00056008.EPS

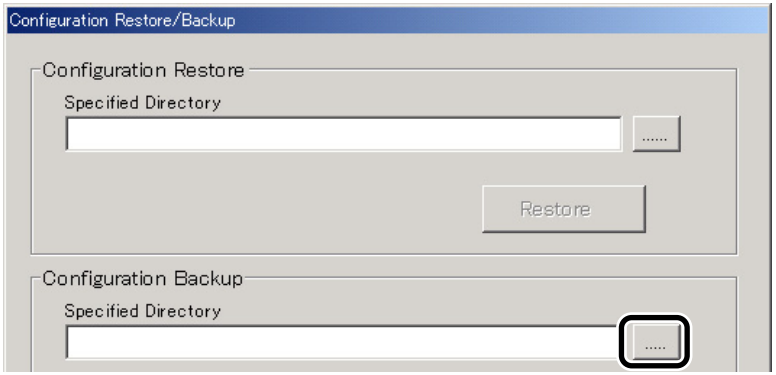
7.1 Backing Up the CL Setup File

1. Insert an FD into the FDD.

2. Start the Service Utility and then click [Configuration Restore/Backup] (the second item from the top).

   ➔ The “Configuration Restore/Backup” window opens.

3. Click [.....] in the [Configuration Backup] area.



00000417.EPS

   ➔ A window opens, prompting you to select a storage directory.

4. Click the downward arrow mark for

, and then choose

.

5. Click OK.

   ➔ You are then returned to the “Configuration Restore/Backup” window.

6. Click Backup.

➔ The setup file backup process begins. In about one minute, a message appears prompting you to replace the FD.

7. Insert the second FD into the FDD.

◆ *NOTE* ◆

- *No message appears to indicate the end of the backup process.*
- *During the backup process, the mouse cursor changes to the mark. You may understand that the backup process is completed when the mark changes back to the mouse cursor. The mark does not appear unless the mouse cursor is positioned in the Configuration Restore/Backup window.*
- *Before removing the FD, verify that the FDD access lamp is extinguished.*

8. Remove the FD from the FDD.

9. Click Cancel.

➔ The system returns to the “IIP Service Utility” window.

10. Click [Exit Service Utility].

➔ The system returns to the desktop screen.

7.2 Backing Up the RU Setup File

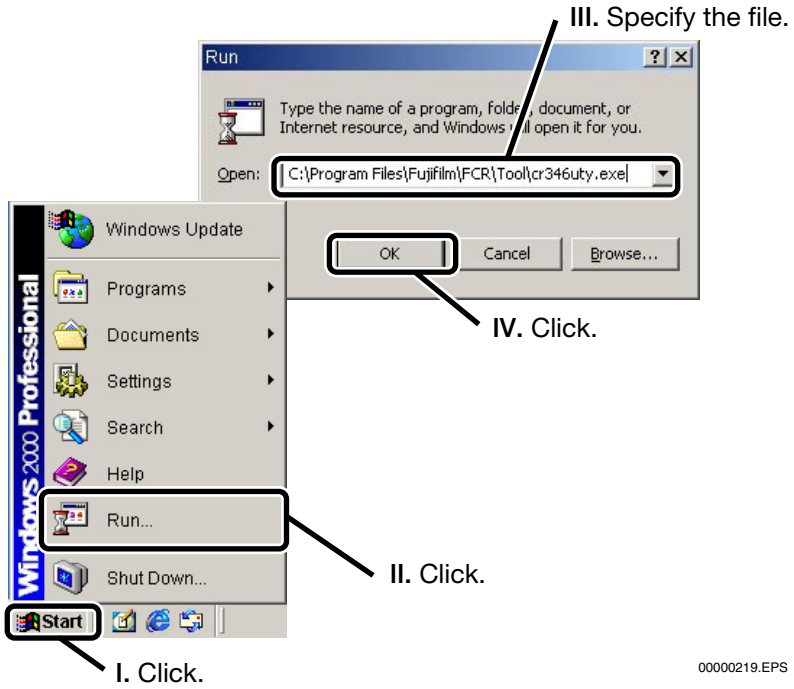
This section explains about the procedure for making an FD backup by saving the RU machine-specific data onto an FD after the completion of setup.

◆ *NOTE* ◆

The machine is supplied with an FD that stores machine shipment control data. Do not use this FD for making a backup. This FD contains data that can only be measured at factory. If such data is lost, it cannot be restored at site.

1. Insert an FD into the CL-PC’s FDD.

2. Start the RU M-Utility by performing the steps indicated below:



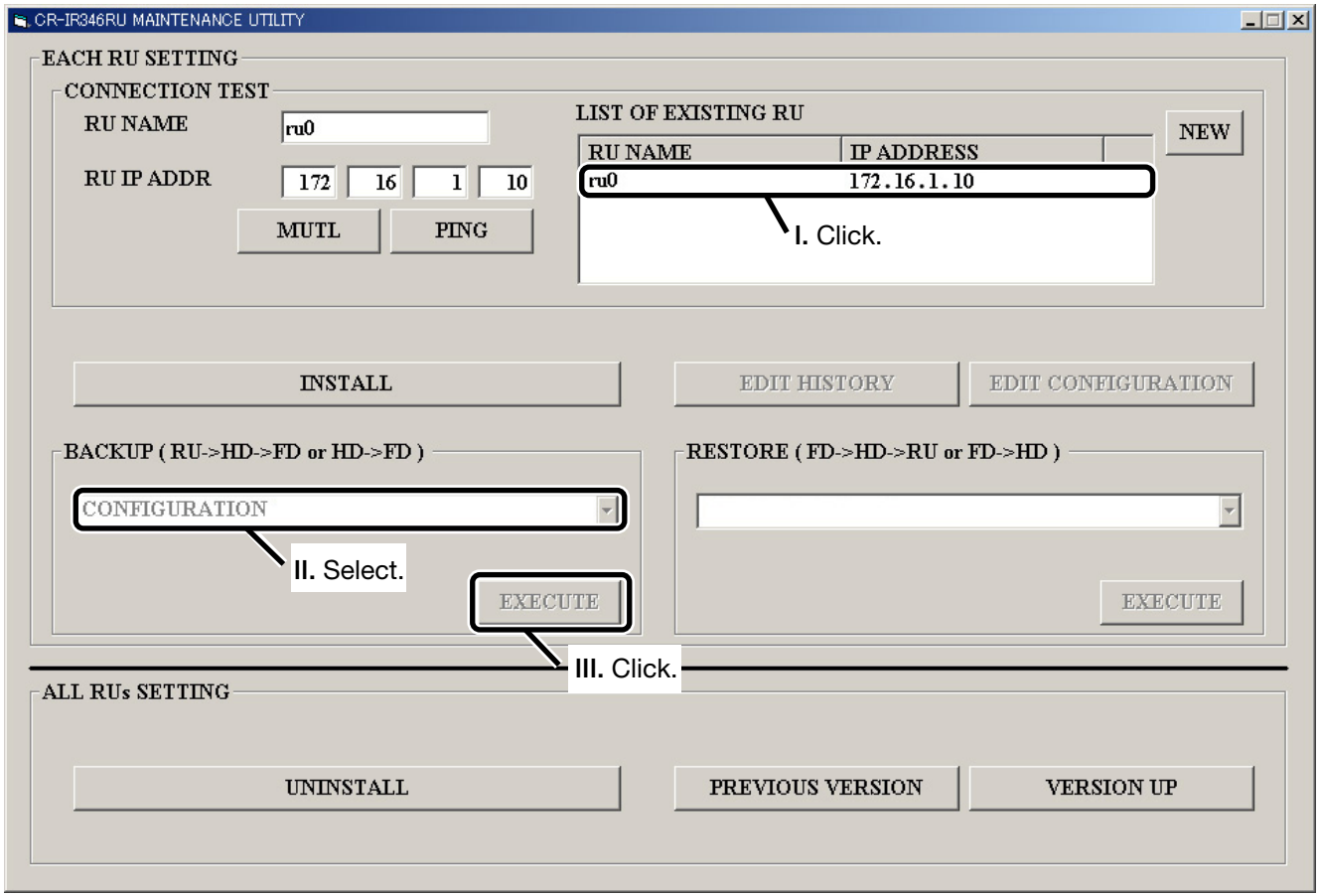
➔ The RU M-Utility starts.

3. From [LIST OF EXISTING RU], select a target RU for backup.

4. From the [BACKUP (RU → HD → FD or HD → FD)] area, back up the following data:

- CONFIGURATION
- SCN ALL DATA

● CONFIGURATION data backup example



00000220.EPS

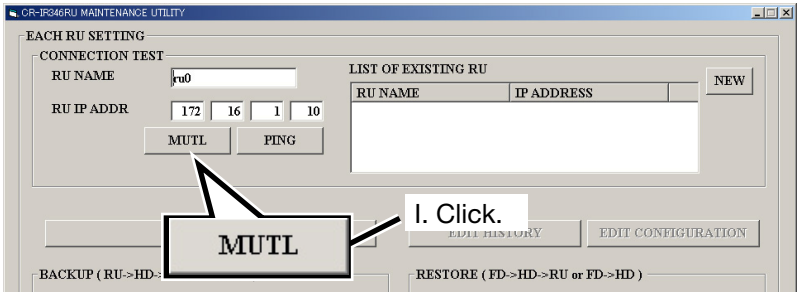
➥ ***REFERENCE***

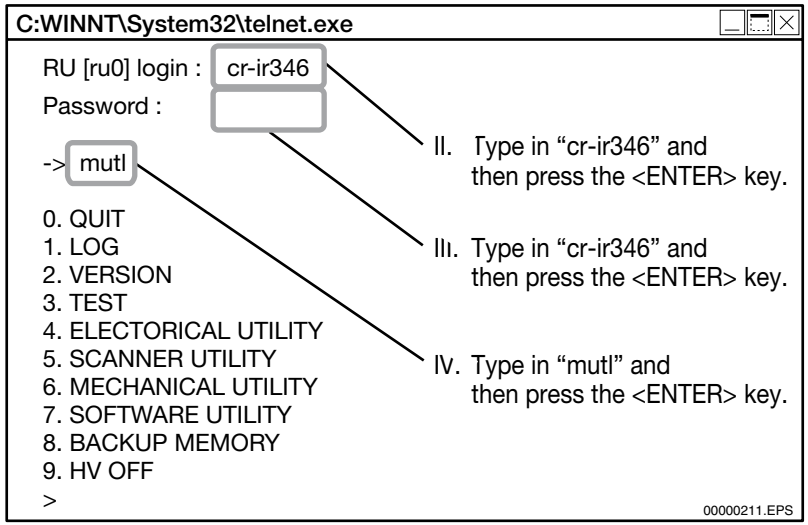
During SCN ALL DATA backup processing, the RU produces a beep sound.

7.3 Verifying and Deleting the RU Error Log

7.3.1 Verifying the RU Error Log

1. From the main menu of the RU M-Utility, perform the steps indicated below:





◆ NOTE ◆

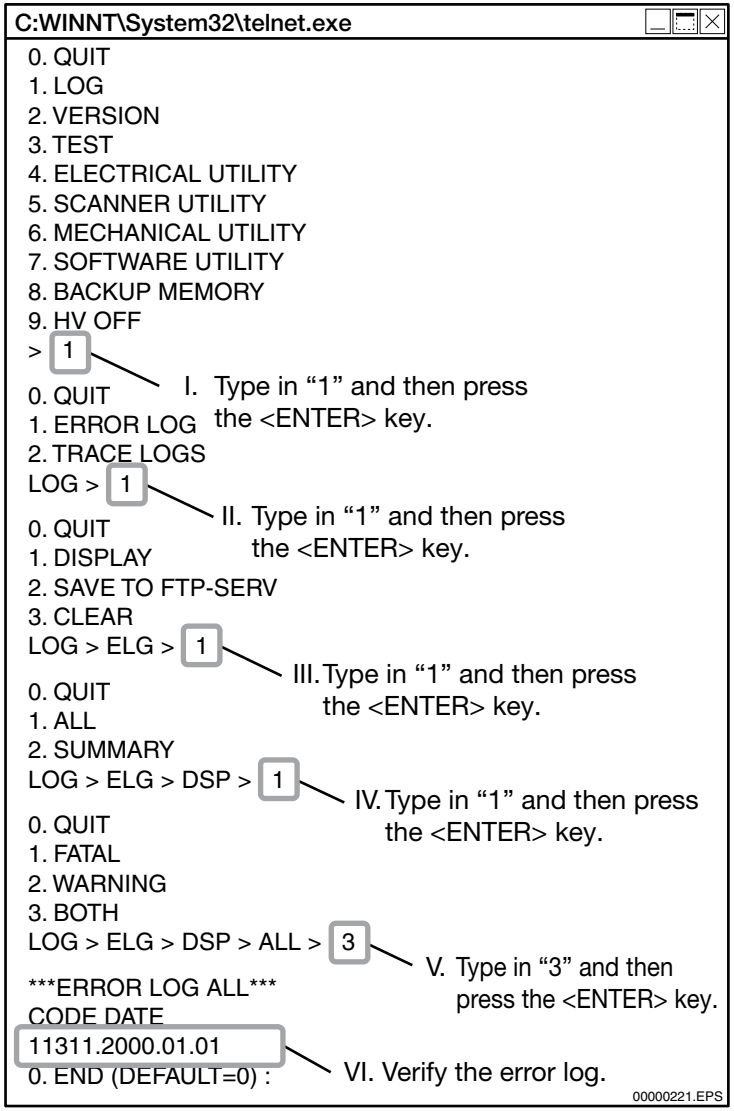
Be quick to operate II. and III. above.The operation will be canceled if the <Enter> key is not pressed in a certain period of time. If canceled, repeat step II. thereafter.

2. After selecting an error log as directed below, verify it.

➥ REFERENCE

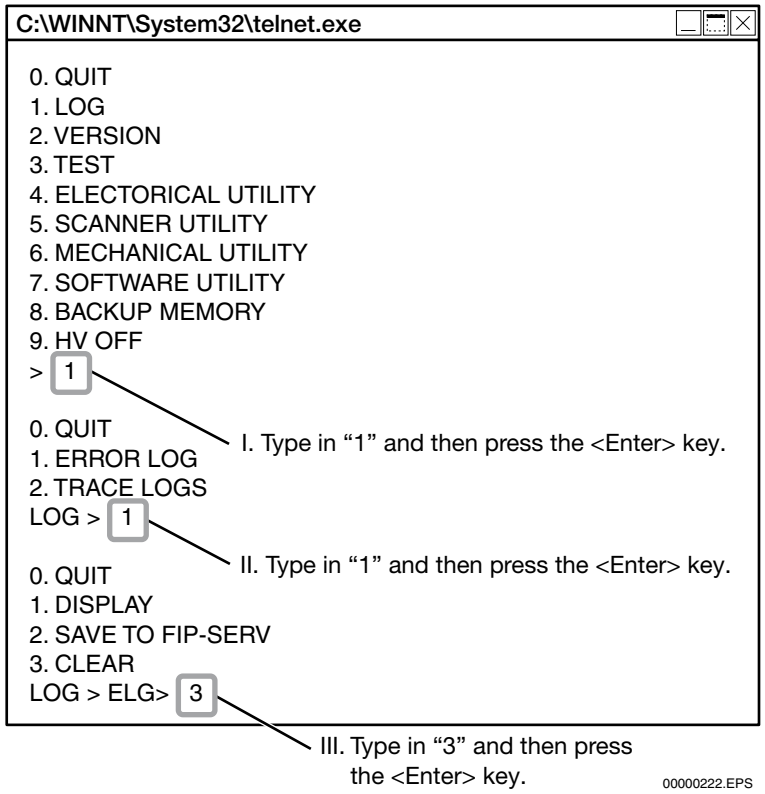
If the error log does not exist, the following message appears:

```
THE LOG IS EMPTY.
RESULT:OK
```

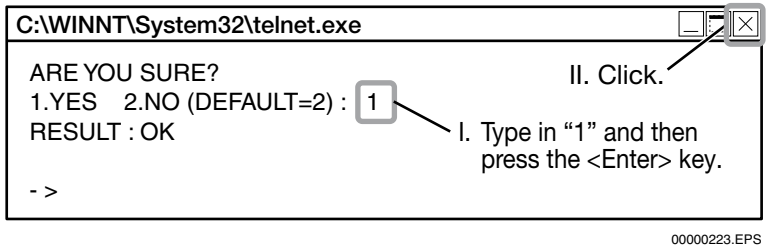


7.3.2 Deleting the RU Error Log

1. **Start the RU M-Utility. Delete the error log as directed below:**



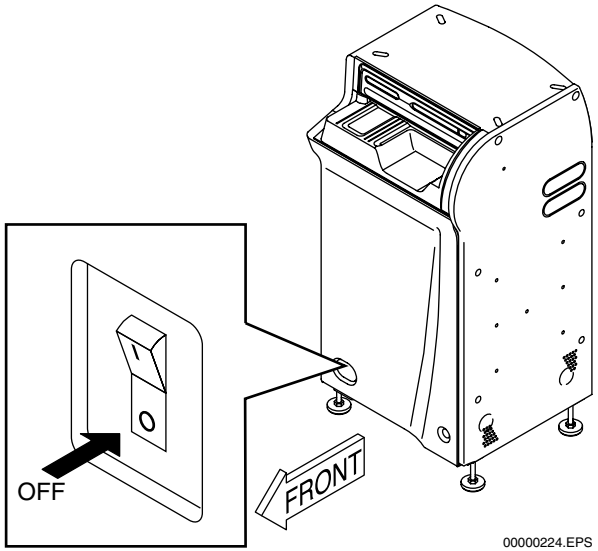
2. **Exit the M-Utility.**



7.4 Turning OFF the CL and RU

1. **Shut down the CL system.**

2. **Turn OFF the RU power.**

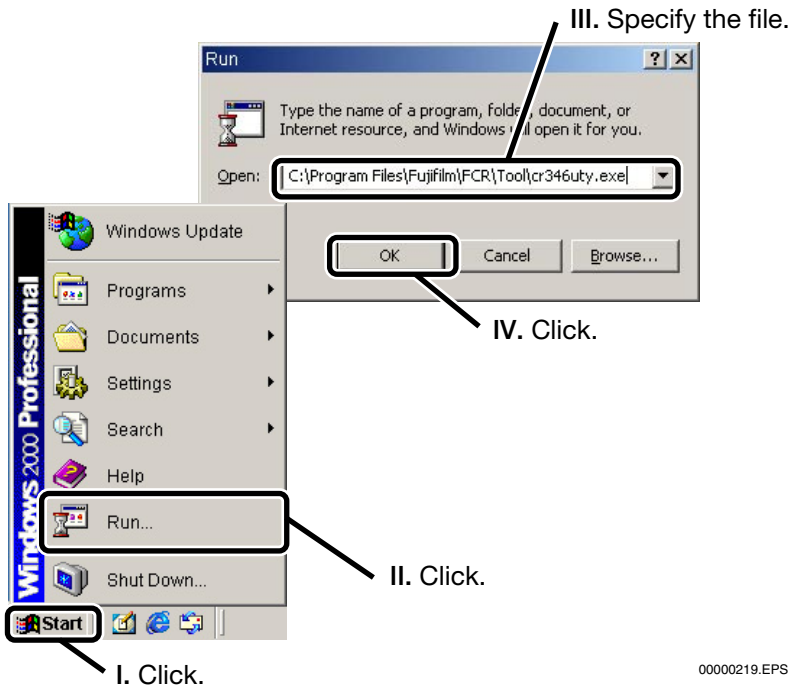


Next ▸▸

Continue to perform the procedures set forth in Chapter 10, Final Installation, in “Installation” of the RU Service Manual.

Appendix 2 Setting the RU-Config

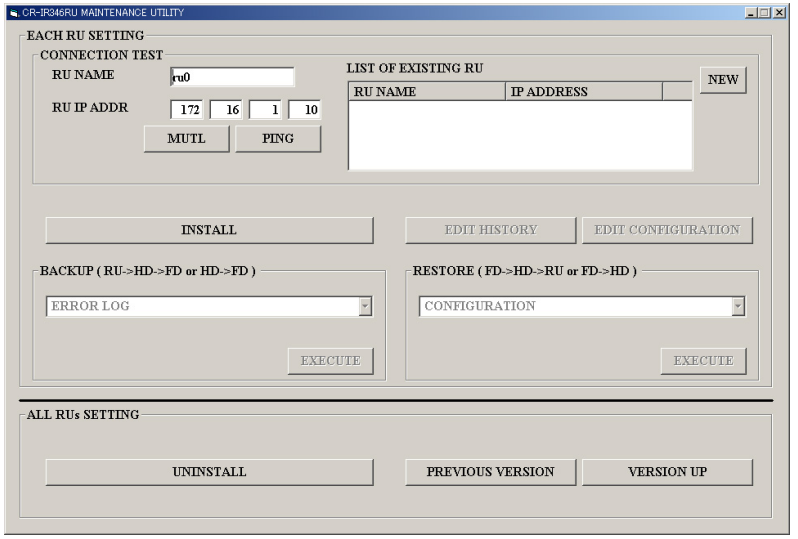
1. Start the RU M-Utility as directed below:



00000219.EPS

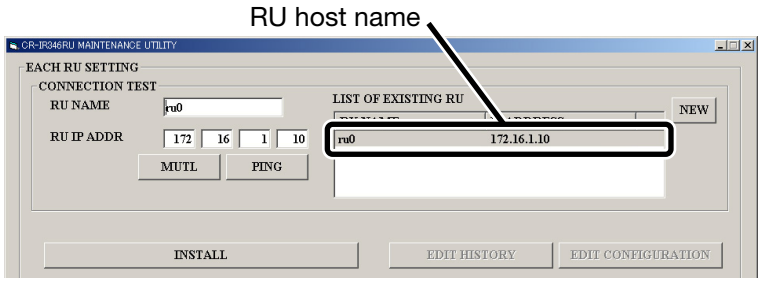
➔ The RU M-Utility main menu opens.

● Main menu window



00000215.EPS

2. From the “LIST OF EXISTING RU” area, click the host name of the RU whose configuration file is to be set.



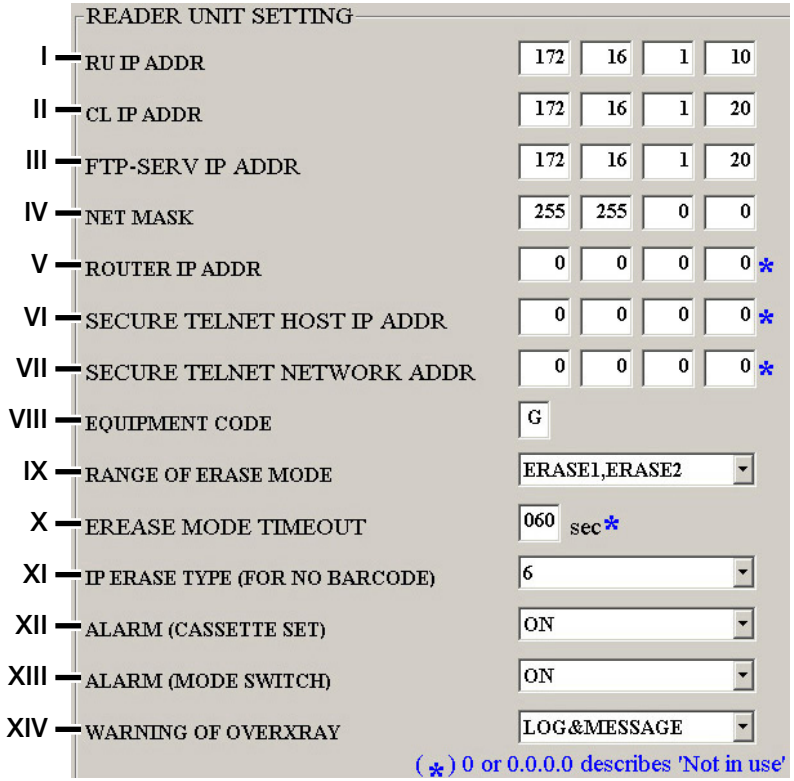
00000434.EPS

➔ The text color of the “EDIT CONFIGURATION” button changes from gray to black.

3. Click EDIT CONFIGURATION.

➔ The “READER UNIT SETTING” window opens.

4. See the table entitled “RU configuration setting list” and change the RU-Config settings.


READER UNIT SETTING
I RU IP ADDR 172 16 1 10
II CL IP ADDR 172 16 1 20
III FTP-SERV IP ADDR 172 16 1 20
IV NET MASK 255 255 0 0
V ROUTER IP ADDR 0 0 0 0 *
VI SECURE TELNET HOST IP ADDR 0 0 0 0 *
VII SECURE TELNET NETWORK ADDR 0 0 0 0 *
VIII EQUIPMENT CODE G
IX RANGE OF ERASE MODE ERASE1,ERASE2
X EREASE MODE TIMEOUT 060 sec*
XI IP ERASE TYPE (FOR NO BARCODE) 6
XII ALARM (CASSETTE SET) ON
XIII ALARM (MODE SWITCH) ON
XIV WARNING OF OVERXRAY LOG&MESSAGE
(*) 0 or 0.0.0.0 describes 'Not in use'

IN000086.EPS

Table RU configuration setting list

No.	Config Setup Item	Setup Range	Default	Remarks
I	RU IP ADDR	IP address setup range	IP address set up when the RU-AP is installed.	IP address of the RU.
II	CL IP ADDR	IP address setup range	IP address set up when the RU-AP is installed.	IP address of the HOST (CL).
III	FTP-SERV IP ADDR	Subnet mask setup range	IP address that is set up during RU-AP installation will be the default.	FTP server IP address
IV	NET MASK	Subnet mask specification range	255.255.0.0	Subnet mask
V	ROUTER IP ADDR	IP address setup range	0.0.0.0	Route address (Do not change the setup.)
VI	SECURE TELNET HOST IP ADDR	IP address setup range	0.0.0.0	IP address available for the TELNET
VII	SECURE TELNET NETWORK ADDR	IP address setup range	0.0.0.0	Range of the IP address available for the TELNET
VIII	EQUIPMENT CODE	A–Z	A	Machine serial ID code of the RU. (This code is printed on film.)
IX	RANGE OF ERASE MODE	• ERASE 1 • ERASE 1, ERASE 2	ERASE 1	Specifies the erasure mode range. ERASE 1: Primary erasure can be selected. ERASE 1, ERASE 2: Both primary and secondary erasures can be selected.
X	ERASE MODE TIMEOUT	0 to 999 (sec)	060	Erase mode timeout setting
XI	IP ERASE TYPE (FOR NO BARCODE)	• 5, 6 • 6	6	Setup needed if no barcode reader is installed. 5, 6: Types V and VI mixed. 6 : Type VI
XII	ALARM (CASSETTE SET)	• ON • OFF	ON	Sets alarm ON/OFF when cassette is inserted. ON : Alarm sounds. OFF: Alarm does not sound
XIII	ALARM (MODE SWITCH)	• ON • OFF	ON	Sets alarm ON/OFF when erasure processing is selected. ON : Alarm sounds. OFF: Alarm does not sound.
XIV	WARNING OF OVER-XRAY	• LOG & MESSAGE • LOG • NONE	LOG & MESSAGE	Selects X-ray over-exposure IP warning method. LOG & MESSAGE: Warning by log and message. LOG : Warning by log. NONE: No warning issued.

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00000010.EPS

5. Click SET.

➔ The system saves the settings and returns to the main menu.

6. Click the ✕ mark at the upper right corner of the window.

➔ The system returns to the desktop screen.

7. From the Start menu, sequentially choose “Programs”, “Fuji Film”, and then “FCR”.

➔ The CL-AP starts up in about one minute.

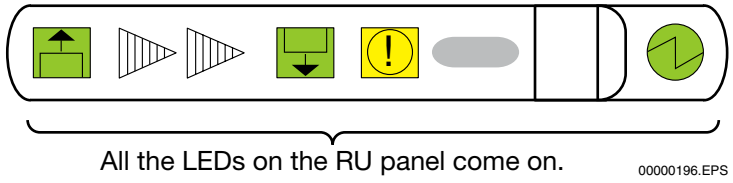
8. Start the RU (by turning the power ON).

➔ After a while, all the LEDs on the RU panel come on, and the CL monitor shows a message to indicate that the RU-Config is being updated.

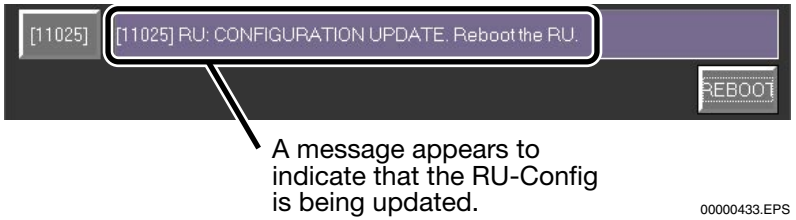
◆◆ *CAUTION* ◆◆

Never turn OFF the power to the RU while the RU panel is illuminated, because the RU's CPU board can be damaged.

● RU



●CL

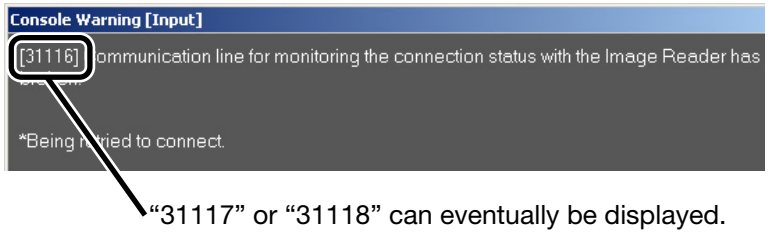

[11025]
[11025] RU: CONFIGURATION UPDATE. Reboot the RU.
REBOOT
A message appears to indicate that the RU-Config is being updated.
00000433.EPS

➔ The RU-Config update process ends.

9. Click REBOOT on the CL monitor.

➔ The RU system restarts, making the updated RU-Config settings effective.

After several seconds, the “Console Warning” window opens.



◆ *NOTE* ◆

Do nothing and wait for a while.
The “Console Warning” window will disappear.

➔ The RU initialization message appears. The RU becomes available in about one minute.

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Appendix 5 Procedures for Changing the CL and RU IP Addresses

This appendix explains about the procedures for changing the CL and RU IP addresses.

The IP addresses need to be changed in the following cases:

Case 1: When changing the CL/RU network configuration from the stand-alone type to the network type

Case 2: When the CL and RU IP addresses need to be changed for hospital network management purposes

1. Incorporating into the Network

In compliance with the hospital network specifications, connect the CL and RU network cables to the hospital's network.

2. Changing the Software Settings

Change the IP addresses for the CL and RU as summarized below:

- Changing the RU configuration file
- Changing the CL Service Utility settings
- Changing the CL-PC IP address
- Verifying the connection after IP address changes

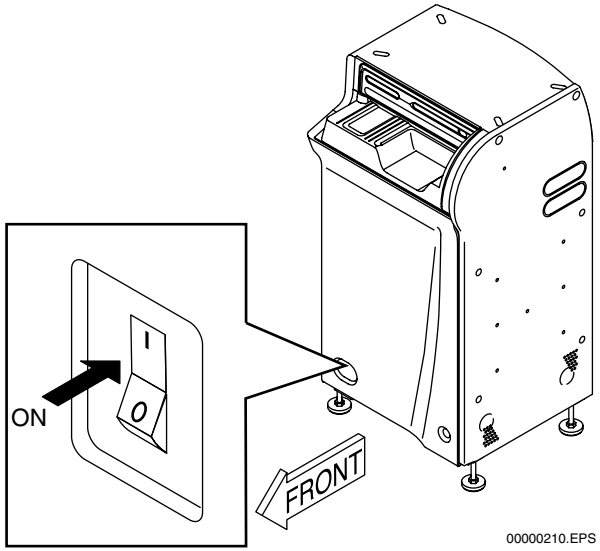
Change the IP addresses as indicated in the example below:

RU IP address : 172.16.1.10 → 200.150.100.50

CL IP address : 172.16.1.20 → 200.150.100.10

■ Changing the RU configuration file

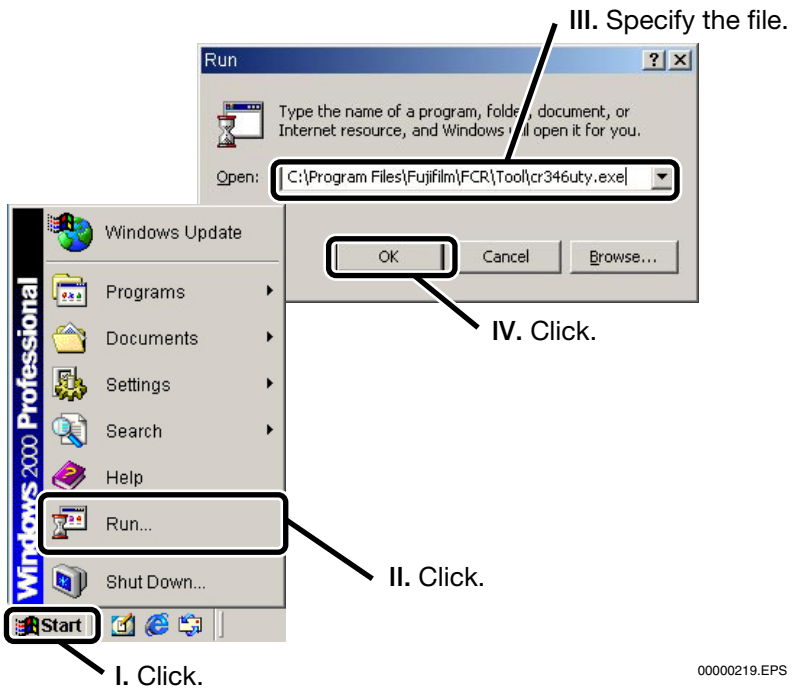
1. **Turn ON the RU power.**



2. Start the RU M-Utility as directed below:

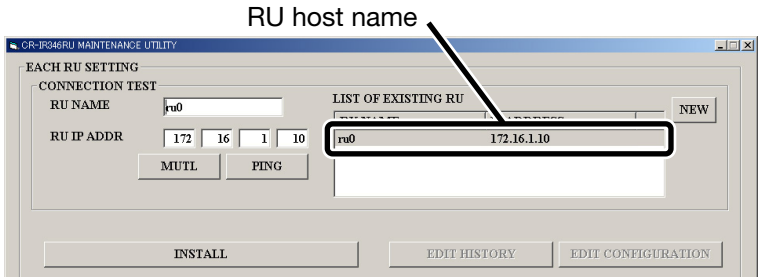
◆ ***NOTE*** ◆

AP such as the CL-AP, Service Utility etc. or the Explorer should have not been started. If already started, shut it down.



➔ The RU M-Utility main menu opens.

3. From the "LIST OF EXISTING RU" area, click the host name of the RU whose configuration file is to be set.

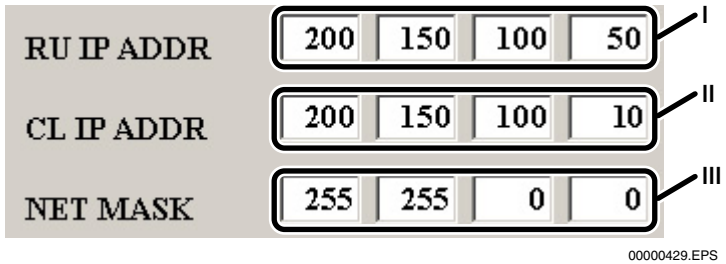


➔ The text color of the "EDIT CONFIGURATION" button changes from gray to black.

4. Click EDIT CONFIGURATION.

➔ The "READER UNIT SETTING" window opens.

5. Perform the following setup steps:



I. Enter a new RU IP address (e.g., 200.150.100.50).
II. Enter a new CL IP address (e.g., 200.150.100.10).
III. Enter a net mask.

6. Click SET.

➔ The system saves the settings and returns to the main menu.

7. Click the ✕ mark at the upper right corner of the window.

➔ The system returns to the desktop screen.

8. From the Start menu, sequentially choose "Programs", "Fuji Film", and then "FCR".

◆◆ CAUTIONS ◆◆

Never turn OFF the power to the RU while the RU panel is illuminated, because the RU's CPU board can be damaged.

➔ The CL-AP starts up in about one minute.
The RU-Config file in the RU FLASH ROM will be updated.
(The RU LED lights and a beep sounds.)

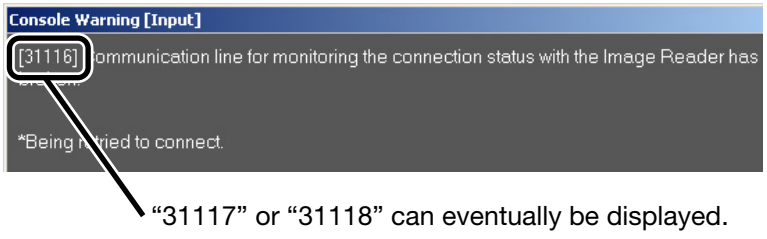
➔ The CL monitor displays a message indicating that the RU-Config file is being updated.

[11025]
[11025] RU: CONFIGURATION UPDATE. Reboot the RU.
REBOOT
A message appears to indicate that the RU-Config file is being updated.

00000270.EPS

9. Click REBOOT on the CL monitor.

➔ The error window opens in a few seconds.


Console Warning [Input]
[31116]
ommunication line for monitoring the connection status with the Image Reader has
*Being
ried to connect.
"31117" or "31118" can eventually be displayed.

00000601.EPS

10. Click OK.

11. Click FUJIFILM.

➔ A menu opens.

12. Hold down the <Shift> key and click Shut Down.

➔ The CL-AP exits and the system returns to the desktop screen.

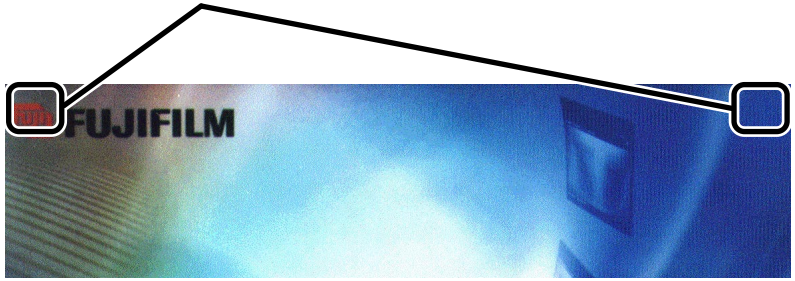
■ Changing a setting from the CL's Service Utility

1. Click Start and then sequentially choose "Programs", "Fuji Film", and "FCR".

➔ The CL-AP starts up.

2. Within a period of 5 seconds after the initial window opens, sequentially click the upper left and upper right corners of the window.

Click the upper left corner and then the upper right corner.



00000118.EPS

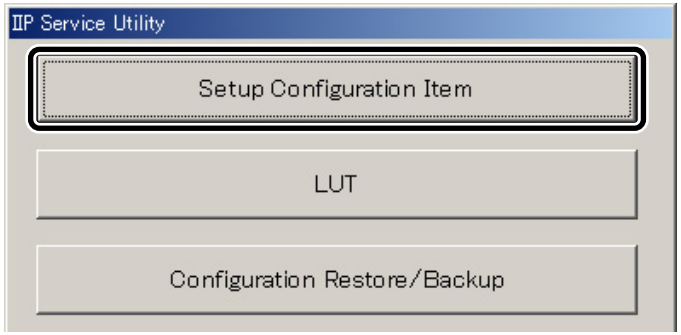
➔ The Service Utility starts. The "IIP Service Utility" window opens.

➥ *REFERENCE*

If you cannot complete step 2. from the initial window within a 5-second period and allow the AP to start up, perform the following steps to start the Service Utility:

1. *To exit the AP, hold down the <Shift> key and choose "Shut Down" on the [FUJIFILM] menu.*
2. *From the "Start" menu, sequentially choose "Programs", "FUJIFILM", and "FCR".*
3. *When the initial window opens, sequentially click its upper left and upper right corners within a period of 5 seconds.*

3. Click [Setup Configuration Item].



00000159.EPS

➔ The "Setup Configuration Item" window opens.

4. Click the ⊞ sign within ⊞ NETWORK CONFIG.

5. Click the ⊞ sign within ⊞ ALL OTHER NODES and then select ⊞ ru0.

➔ The "HostName" window opens in the right-hand area of the window.

6. Enter a new RU IP address (e.g., 200.150.100.50) in the

field.

7. Click Apply.

8. From the "Config (F)" menu, choose "Save".

➔ A window opens, prompting you to confirm the setup data to be saved.

9. Click Yes.

➔ The system saves the setup data.

10. From the “Config (F)” menu, choose “Close”.

➔ The system returns to the “IIP Service Utility” window.

11. Click [Exit Service Utility].

➔ The system returns to the desktop screen.

■ Changing the CL-PC IP address

1. Double-click

on the desktop.

➔ The “My Computer” window opens.

2. Double-click

.

➔ The “Control Panel” window opens.

3. Double-click

.

➔ The “Network and Dial-up connection” window opens.

4. Double-click

.

➔ The “Local Area Connection” window opens.

➥ *REFERENCE*

On Windows 2000, the “Local Area Connection” icon may not appear on the display if your PC is not connected to other equipment (RU) with a network cable.

5. Click

.

➔ The “Local Area Connection Properties” window opens.

6. Choose

and then click

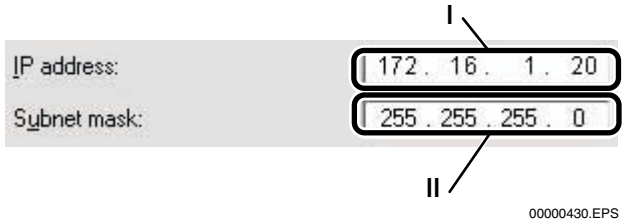
.

➔ The “Internet Protocol (TCP/IP) Properties” window opens.

7. Choose

.

8. Perform the following setup steps:



I. Enter a new CL IP address (e.g., 200.150.100.10).
II. Enter a subnet mask.

9. Click

.

➔ You are returned to the “Local Area Connection Properties” window.

10. Click

.

➔ The system returns to the desktop screen.

➥ *REFERENCE*

When a window appears prompting you to restart the system, click [Yes].

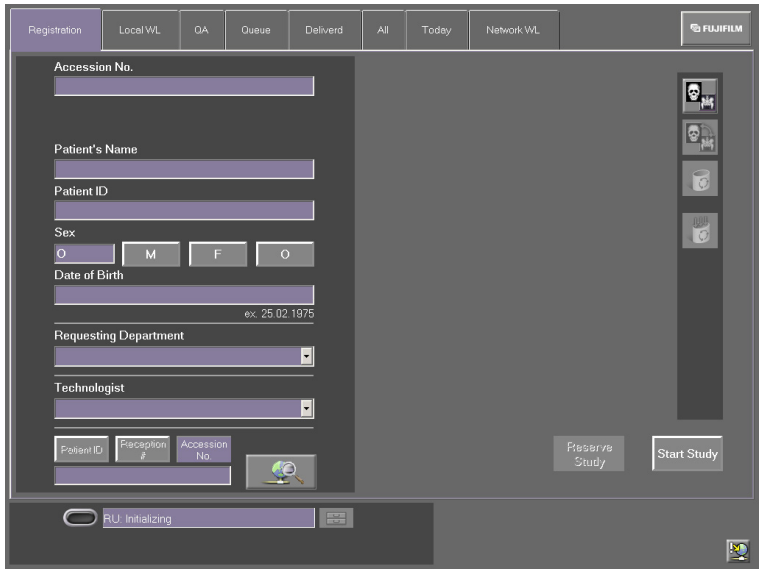
Once the OS has started, the CL-AP will start up automatically.

■ Verifying the connection after IP address changes

1. Click Start and then sequentially choose “Programs”, “Fuji Film”, and “FCR”.

➔ The CL-AP starts up in about one minute.

The RU initialization message appears on the CL monitor. The RU becomes available in about one minute.



00000195.EPS

2. From the CL user window (Registration), set patient data and exposure menu, and then click Start Study.

➔ Both the CL-AP window lamp and the RU panel’s cassette insertion lamp go on.

3. Set the cassette in the RU’s cassette setting unit and make sure that images are transferred to the CL.

➥ ***REFERENCE***

Be sure not to incorrectly enter an IP address for “NETWORK CONFIG” – “ALL OTHER NODES” – “ru0” settings, otherwise an image transfer error will be indicated.

4. Click at the upper right corner of the window.

5. Click FUJIFILM.

➔ A menu opens.

6. Hold down the <Shift> key and click Shut Down.

➔ The CL-AP exits and the system returns to the desktop screen.

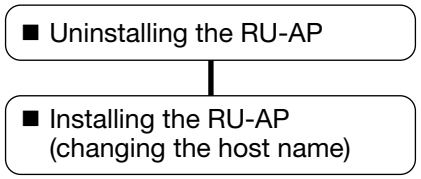
Appendix 8 Changing the RU Host Name

The RU host name cannot be changed with a tool such as the RU M-UTILITY. For this reason, change it accordingly by reinstalling the RU-AP.

◆ *NOTE* ◆

Before performing the procedures described herein, be sure to take note of all the registered RU config information, particularly IP address and sub-net mask, for the following reason.
When reinstalling the RU-AP, it is necessary to uninstall the RU-AP that has been installed. While this processing is being performed, the RU config data is deleted (only data stored in the FTP server is deleted).

Change the host name according to the flow below.



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■ Uninstalling the RU-AP

☞ See “Appendix A Uninstalling the APs” under “RI: Reinstalling the Software”.

◆ *NOTE* ◆

Note that, even if two or more RUs have been registered to the RU M-UTILITY, just a single operation uninstalls all those RUs registered.

■ Installing the RU-AP (changing the host name)

◆ *NOTE* ◆

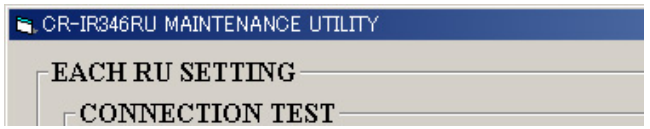
Make sure to exit all applications, particularly the Explorer.

1. **Insert into the CD-ROM drive the RU-CD supplied with the RU.**

➔ After a while, the “CR-IR346RU MAINTENANCE TOOLS” window opens.

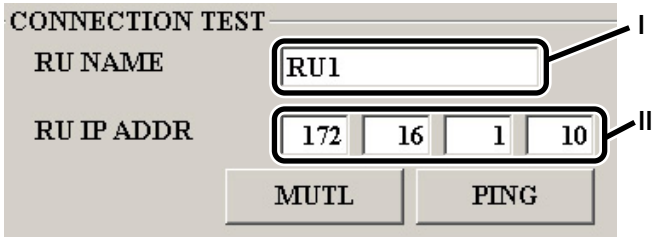
2. **Click [START].**

➔ The RU M-UTILITY main menu appears.



00000414.EPS

3. Enter the RU host name to be changed and the RU IP address.



00000426.EPS

I. Enter the RU host name (host name you wish to change).
II. Enter the RU IP address (IP address taken note of before starting the procedure).

◆ ***NOTE*** ◆

The host name entered at step I. above will be taken as the RU's correct host name. Be sure to enter the correct host name at this step.

4. Click PING.

➔ Connection to the RU will then be verified.

5. Verify network connection to the RU.
If the following message appears four times, connection to the RU has been established accordingly.

Reply from 172.16.1.10: bytes=32 time<10ms TTL=128

➥ ***REFERENCE***

Values "time<10ms" and "TTL=128" appearing in the message above can be different depending on the network status. Even if different values appear in it, network connection has been established normally.

◆ ***NOTE*** ◆

Before proceeding to steps hereafter, make sure that there are no problems with the network connection. An error will occur when starting up the CL if you proceed to steps hereafter without establishing network connection properly.

6. Click the ✕ mark at the upper right corner of the command prompt window.

➔ You are returned to the main menu.

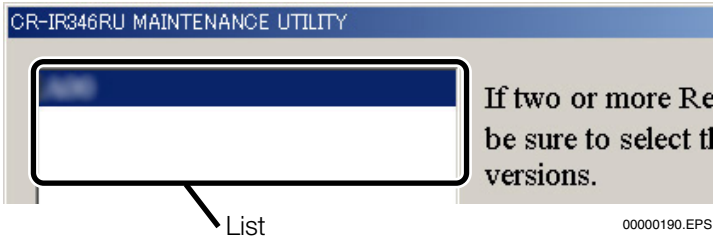
7. Click [INSTALL] in the main menu.

➔ The "Insert the CD-ROM into a drive" window opens.

8. Click OK.

➔ A window prompting you to select the RU-AP version opens.

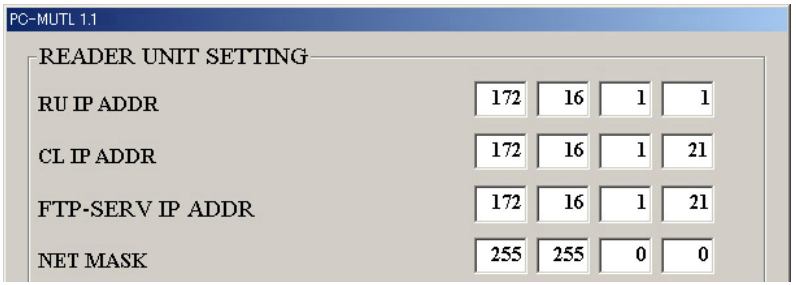
9. Select the RU-AP version from the list and click OK.



00000190.EPS

➔ The "READER UNIT SETTING" window opens.

10. Set up config information items that have been taken note of before starting the procedure.



IN000093.EPS

11. **Click** SET **.**

➔ After the completion of RU-AP installation, “Completed” will appear on the screen.

12. **Click** OK **.**

➔ You are returned to the main menu.

This completes the RU host name change.

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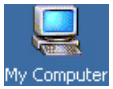
Appendix 9 Changing the CL IP Address

To connect a multiple number of CLs within the same network, the CL IP address must be changed from the default setup value (172.16.1.20) to another.
In addition, the sub-net mask must also be changed from the default setup value (255.255.0.0) to another, for which the procedures described below should be followed.

1. Double-click 

on the desktop. Sequentially select

,

and then

.

➔ The “Local Area Connection” window opens.

2. Click

.

➔ The “Local Area Connection Properties” window opens.

3. Select

and then click

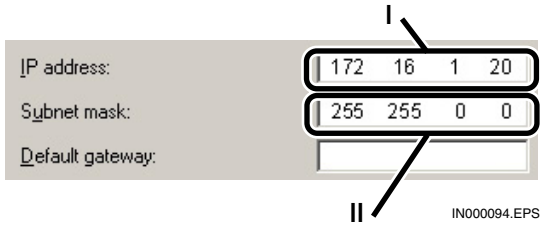
.

➔ The “Internet Protocol (TCP/IP) Properties” window opens.

4. Select

.

5. Change the IP address and sub-net mask.



I. IP address
II. Sub-net mask

6. Click

.

➔ You are returned to the “Local Area Connection Properties” window.

7. Click

.

➔ You are returned to the desktop screen.

➥ *REFERENCE*

When a window appears prompting you to restart the system, click [Yes]. Once the OS has started, the CL-AP will start up automatically.

This completes to change the CL IP address and sub-net mask.

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CR-IR346/348CL Service Manual

OE: Connecting the CL to Other Equipment

OE consists of the following:

OE1 CL+Local Printer (E-i/f Connection)
OE2 CL+HI-C/QA-WS/OD-F (FINP: Image Input/Output)
OE3 CL+HI-C655/QA-WS (DICOM CR Storage)
OE4 CL+Other (DICOM CR Storage: Transfer of Processed Images)
OE5 CL+FN-PS551/DRYPIX/FM-DP L (DICOM Print)
OE6 CL+FN-PS551 or 5000 Series (FINP: Print Output)
OE7 CL+RIS/IDC4 (ID Online)
OE8 CL+RIS (DICOM MWM/DICOM PPS)
OE9 CL+Archiver (Storage Commitment Push)
OE10 CL+QA-WS (Transfer of Energy Subtraction Images)
OE11 CL+RIS (Ordering) [simplified]
OE12 CL+X-Ray Controller (Serial Connection)

Control Sheet

Issue date	Revision number	Reason	Pages affected
10/20/2000	00	New release (FM2862)	All pages
12/10/2000	00	Revision (FM2950)	I, II, i, ii, B1-1~10, B2-1~15, B3-1~16
12/10/2000	00	Changes in pagination (FM2950)	B2-16
4/10/2001	01	Previous Chapter B “Connecting the CL to Other Equipment” modified (OE1–3) and new release (OE4–7) (FM2951)	All pages
05/30/2001	02	Revision for software version A02 (FM3027)	I, II, 1-1, 1-4~8, 1-13, 2-2~9, 2-11, 2-12, 2-14~16, 3-2~18, 4-2~18, 5-1~14, 5-16, 5-17, 6-1~6-9, 6-11~14, 7-1, 7-2, 7-4~15, 8-1~10-17
05/30/2001	02	Changes in pagination (FM3027)	2-13
08/30/2001	03	Revision for software version A04 (FM3125)	I, II, 1-1, 1-9, 1-10, 2-3, 2-14, 2-15, 2-17, 2-18, 3-3, 3-16, 3-17, 4-3, 4-16, 4-17, 5-1, 5-2, 5-6, 5-11, 5-12, 5-14, 5-16, 6-1~4, 6-6, 6-8, 6-11~13, 7-8~12, 8-1, 8-14, 10-1~3, 10-14, 11-1, 11-2, 12-1~12

CL+Local Printer

A local printer is not supported.

CL+HI-C/QA-WS/OD-F (FINP: Image Input/Output)

... is not supported.

CL+HI-C655/QA-WS (DICOM CR Storage)

Presented below are the procedures used for transferring images from the CL-IR346CL to the HI-C655 (or QA-WS) using the DICOM CR Storage feature.

Also described are the setup procedures for transferring pre-standardized images to the QA-WS.

◆ ***NOTE*** ◆

The "CR-IR346CL" and the "HI-C655 (or QA-WS)" are abbreviated hereafter "CL" and "other connected equipment", respectively.

The CL supports the following DICOM CR Storage functions, overview of which is shown below.

❍ **CR Storage SCU**
An image transfer function using the DICOM.

❍ **CR Storage SCU Private (Private Unstandardized CR Storage)**
An image transfer function using the DICOM, which makes it possible to add FUJI's own private information to images for transfer.

Private Unstandardized CR Storage is a function that enables transfer of images not subjected to standardization processing using the DICOM.

This function can be used when, for example, the QA-WS that is capable of receiving images not subjected to standardization processing is connected to the CL.

■ Prior to setup

● CL requirements

- The CL main unit must have been set up accordingly.
- Software version required: A00 or later
- Option keys are needed.

Key Name	Functions Supported
IR346 DICOM CR STORAGE key	CR Storage SCU Standard CR Storage SCU Private (Includes Private Unstandardized CR Storage.)

● Requirements of other connected equipment

Other connected equipment must have been set up accordingly.

❍ When other connected equipment is the HI-C655

- Software version required: A07 or later
- DICOM Storage option key (Standard/Private)

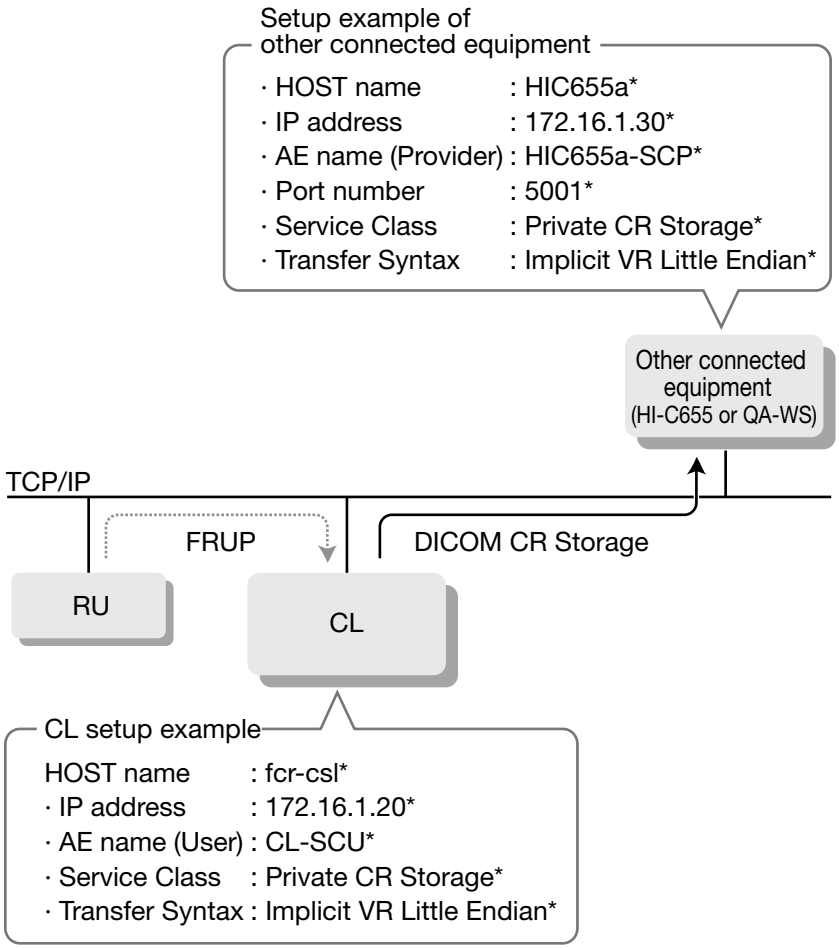
❍ When other connected equipment is the QA-WS

- Software version required: A04 or later
- DICOM Storage option key (Standard/Private)

❍ Yokogawa server

❍ Synapse server

■ Connection/setup example


Setup example of other connected equipment
· HOST name : HIC655a*
· IP address : 172.16.1.30*
· AE name (Provider) : HIC655a-SCP*
· Port number : 5001*
· Service Class : Private CR Storage*
· Transfer Syntax : Implicit VR Little Endian*
Other connected equipment (HI-C655 or QA-WS)
TCP/IP
FRUP
DICOM CR Storage
RU
CL
CL setup example
HOST name : fcr-csl*
· IP address : 172.16.1.20*
· AE name (User) : CL-SCU*
· Service Class : Private CR Storage*
· Transfer Syntax : Implicit VR Little Endian*

Items marked with "*" constitute setup examples, which need be changed depending on the equipment or network environment.

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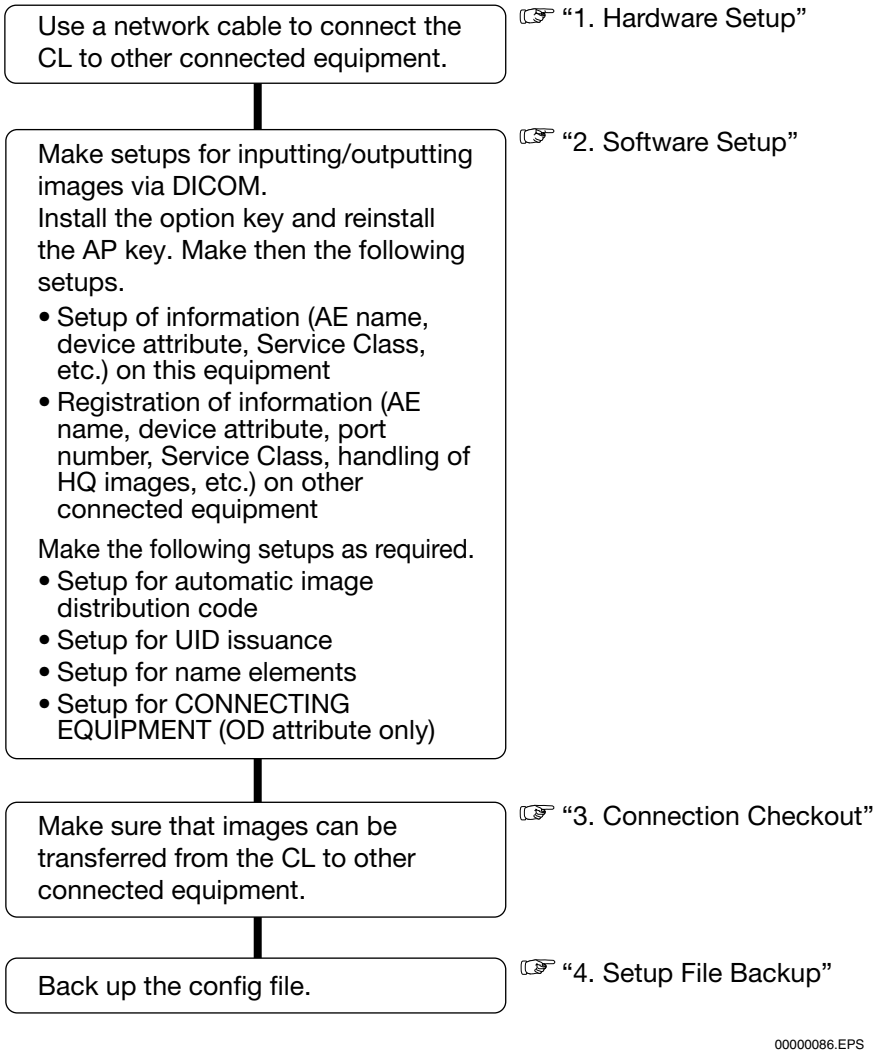
■ Overall operation flow


Use a network cable to connect the CL to other connected equipment.
☞ "1. Hardware Setup"
Make setups for inputting/outputting images via DICOM.
Install the option key and reinstall the AP key. Make then the following setups.
• Setup of information (AE name, device attribute, Service Class, etc.) on this equipment
• Registration of information (AE name, device attribute, port number, Service Class, handling of HQ images, etc.) on other connected equipment
Make the following setups as required.
• Setup for automatic image distribution code
• Setup for UID issuance
• Setup for name elements
• Setup for CONNECTING EQUIPMENT (OD attribute only)
☞ "2. Software Setup"
Make sure that images can be transferred from the CL to other connected equipment.
☞ "3. Connection Checkout"
Back up the config file.
☞ "4. Setup File Backup"

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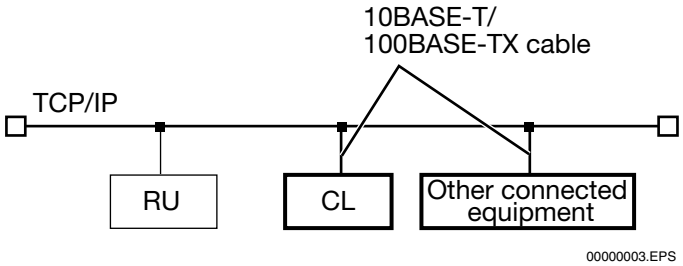
1. Hardware Setup

Connect the CL to other connected equipment via network as illustrated below.



◆ *NOTES* ◆

- *Do not connect the telephone line to the network connectors of the CL and other connected equipment.*
- *The IEC950/UL1950-conformed cable is available for this equipment (CL/HI-C655/QA-WS).*

2. Software Setup

Set up software for the CL and other connected equipment.
Set up the items shown in gray as required. Be sure to set up all other items.

2.1 CL Software Setup
- 2.1.1 Installation of DICOM CR Storage Option Key
- 2.1.2 AP Key Reinstallation
- 2.1.3 Service Utility Startup
- 2.1.4 Setup of Information on This Equipment for the DICOM CR Storage Function
- 2.1.5 Registration of Information on Other Connected Equipment for the DICOM CR Storage Function
- 2.1.6 Settings of Automatic Image Distribution
- 2.1.7 Setup for CONNECTING EQUIPMENT
- 2.1.8 Settings for UID Issuance
- 2.1.9 Changes in Name Elements
- 2.1.10 Service Utility Shutdown

Tasks done on the CL

2.2 Software Setup on Other Connected Equipment … Tasks done on other connected equipment

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2.1 CL Software Setup

2.1.1 Installation of DICOM CR Storage Option Key

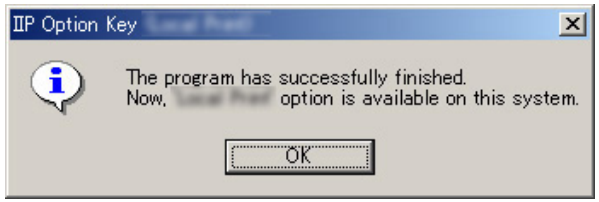
To activate the DICOM CR Storage function, the IR346 DICOM CR STORAGE option key is needed.

1. **Insert the option key CD into the CD-ROM drive.**

➔ Within several seconds, the installation start window opens.

2. **Click** Continue.

➔ A window opens to indicate the completion of installation.



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3. **Click** OK.

➔ The installation start window opens again.

4. **Click** Continue **same as in steps 2 and 3, then click** OK.

➔ The system returns to the desktop screen.

5. **Remove the CD from the CD-ROM drive.**

➥ ***REFERENCE***

The installation start window opens twice because the two kinds of keys, Standard and Private are stored on the DICOM CR Storage option key CD.

2.1.2 AP Key Reinstallation

If the option key is installed, be sure to reinstall the AP key.

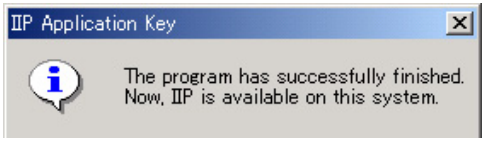
Use the AP key CD (114Y5342002A: Version A00 or later) to reinstall the AP key. The reinstallation procedure is shown below.

1. **Insert the AP key CD into the CD-ROM drive.**

➔ After a while, the installation start window automatically opens.

2. **Click** Continue.

➔ A window opens to indicate the completion of installation.



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3. **Click** OK.

➔ The system returns to the desktop screen.

4. **Remove the CD from the CD-ROM drive.**

2.1.3 Service Utility Startup

1. **Turn ON the CL power.**

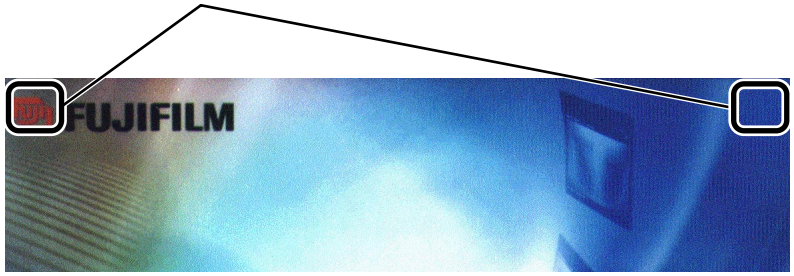
➔ In about one minute after Windows 2000 is started, the CL-AP launches itself.

➥ *REFERENCE*

If the AP or Windows 2000 is already running, start the Service Utility mode as directed under REFERENCE in step 2 below.

2. **Within a period of 5 seconds after the initial window opens, sequentially click the upper left and upper right corners of the window.**

Click the upper left corner and then the upper right corner.



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➔ The Service Utility mode starts. The “IIP Service Utility” window opens.

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➥ *RFERENCE*

If you cannot complete step 2 above from the initial window within a 5-second period and allow the AP to start up, perform the following steps to start the Service Utility mode.

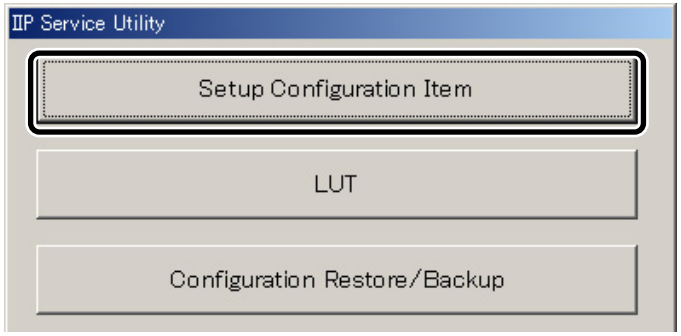
1. *To exit the AP, hold down the <Shift> key and select “Shut Down” on the* FUJIFILM *menu.*
2. *From the “Start” menu, sequentially select “Programs”, “Fuji Film”, and “FCR”.*
3. *When the initial window opens, sequentially click its upper left and upper right corners within a period of 5 seconds.*

2.1.4 Setup of Information on This Equipment for the DICOM CR Storage Function

Make settings for the following information items of this equipment.

- Host name and IP address of this equipment
- AE name (Application Entity Name) and device attribute of this equipment
- Service Class, Role, Transfer Syntax
- Other (timeout settings, etc.)

1. **Click [Setup Configuration Item] of the “IIP Service Utility” window.**



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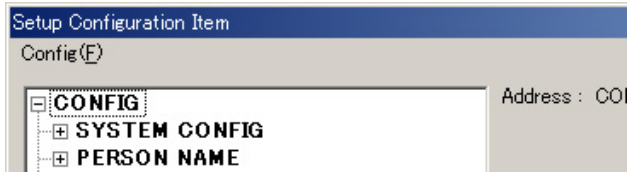
➔ The “Setup Configuration Item” window opens.



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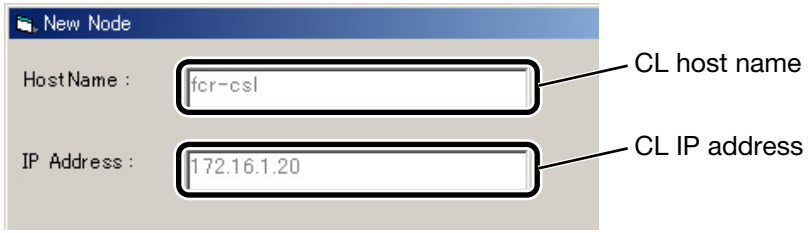
2. **Click the ⊞ mark of the ⊞ NETWORK CONFIG field.**

3. **Select ⊟ THIS HOST(IIP) and click New.**

➔ The “New Node” window opens.

4. Make sure that the CL host name and IP address are displayed.



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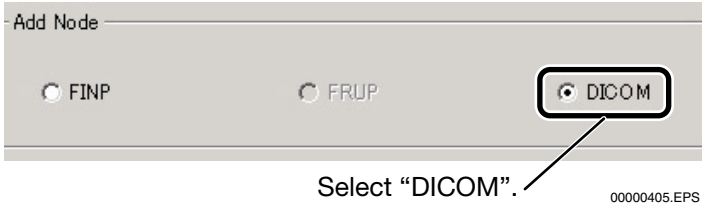
◆ ***NOTE*** ◆

The IP address will not be displayed properly unless the CL is connected to a network.

5. Select "DICOM" and click OK.



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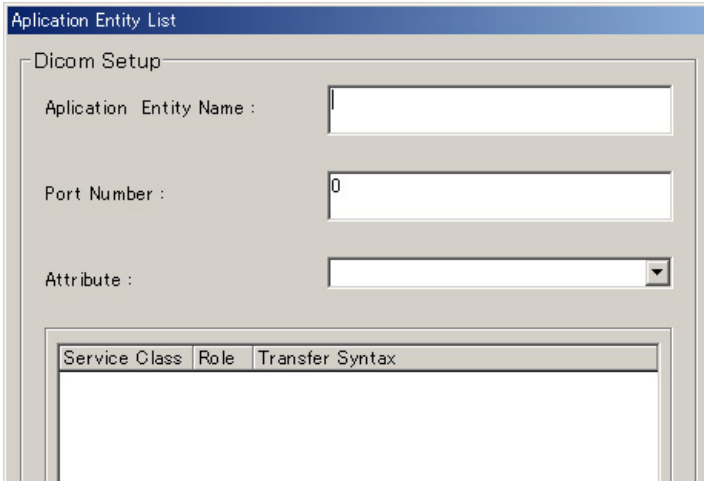
➔ The "Application Entity List" window opens.



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6. Make the following settings.

❍ Enter the AE name that is the SCU for the CL (e.g.: "CL-SCU") in the Aplication Entity Name : field.

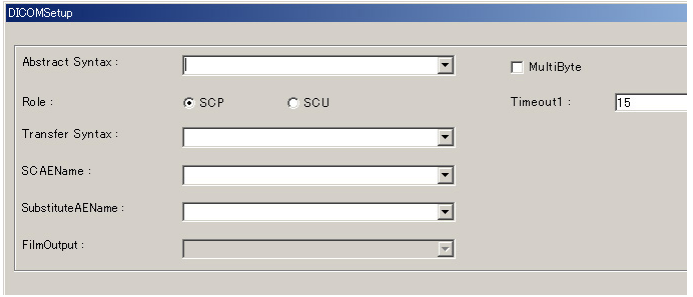
❍ Click downward arrow in the Attribute : field to select the device attribute (OTHER).

◆ ***NOTE*** ◆

- *To set the SCU AE on the CL, select "OTHER" for the device attribute for the time being.*
- *There is no need to set the port number in* Port Number : 0 *When selecting SCU as the Role, the set port number will be disregarded even if it is set.*

7. Click New.

➔ The "DICOMSetup" window opens.



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8. Click downward arrow in the Abstract Syntax : field to select Service Class (e.g.: "Private CR Storage").

- CR Image Storage
- Private CR Storage
- Private Unstandardized CR Storage
- Verification

➥ *REFERENCE*

- *If a Service Class that includes "Private CR Storage" is selected, items that need not be set will be hidden on the "DICOM Setup" window.*
- *"Verification" is the Service Class used to verify connection between DICOM equipment units. For verifying connection, "Verification" must be selected.*

☞ *For details of verification of connection, see "7. Verifying the Connection to Other Connected Equipment – Verify Connection" in "MU: Maintenance Utility".*

9. To set up the AE that is the User, select SCU (SCU) for the Role.

➥ *REFERENCE*

If "SCU" is selected, items that need not be set will be hidden on the "DICOM Setup" window.

10. Click downward arrow in the Transfer Syntax : field to select the Transfer Syntax (e.g.: "ImplicitVRLittleEndian").

Service Class	Transfer Syntax Supported (Selected)		
	ImplictVR LittleEndian	ExplictVR LittleEndian	JPEG Lossless
●CR Image Storage ●Private CR Storage	○	○	○
Private Unstandardized CR Storage	×	×	○
Verification	○	×	×

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11. Set the DICOM inter-message timeout value Timeout1 : 15 as necessary.
Timeout2 : 300 needs not be set. Even if set, it will be disregarded.

➥ *REFERENCE*

- *It is not necessary to check* ☐ MultiByte *.*
  Even if checked, it will be disregarded if the Role set in step 9. above is the SCU.
- Timeout2 : 300 *will be displayed only for software version A00.*

12. Click OK.

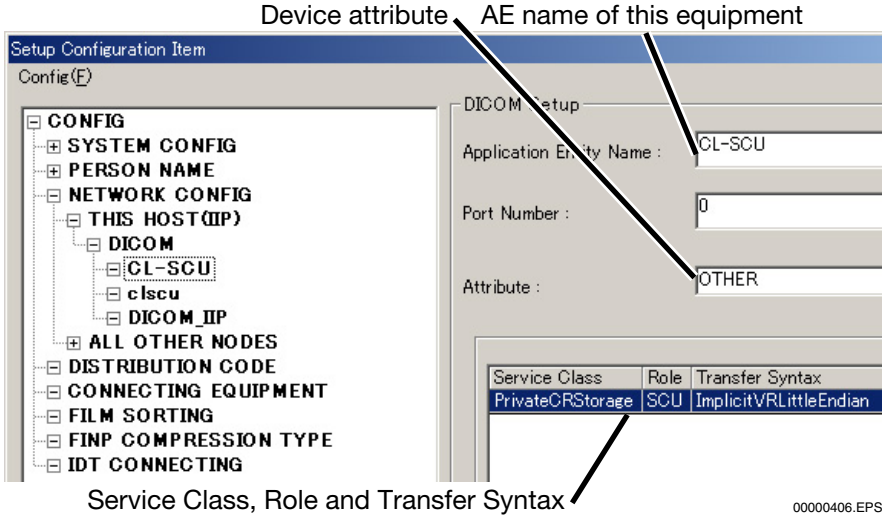
➔ The system returns to the "Application Entity List" window.

13. Click OK.

➔ The system returns to the “Setup Configuration Item” window.

➥ ***REFERENCE***

- *Items just have been set will appear on the right-side area of the “Setup Configuration Item” window.A displayed item can be changed. Whenever it is changed, never fail to click* Apply.
- *If the* Delete *key is clicked, currently selected items are deleted.*



14. Select “Save” from the “Config (F)” menu.

➔ A window opens, prompting you to confirm the setup data to be saved.

15. Click Yes.

➔ The system saves the setup data.

2.1.5 Registration of Information on Other Connected Equipment for the DICOM CR Storage Function

Register the following information items of other connected equipment.

- Host name and IP address of other connected equipment
- AE name (Application Entity Name), port number, and device attribute of other connected equipment
- Service Class, Role, Transfer Syntax
- Other (usage of two-byte characters, settings for data conversion from HQ to standard image, etc.)

1. Select ⊞ ALL OTHER NODES of the “Setup Configuration Item” window and click New.

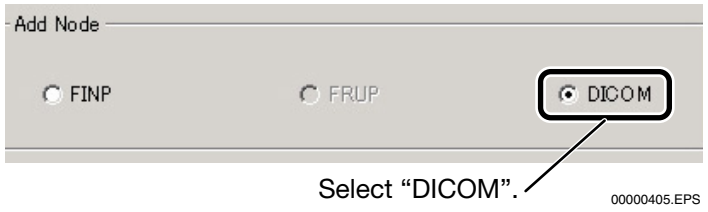
➔ The “New Node” window opens.

2. Make the following settings.

❍ Enter the Host name (e.g.: “HCI655a”) in the Host Name : field.

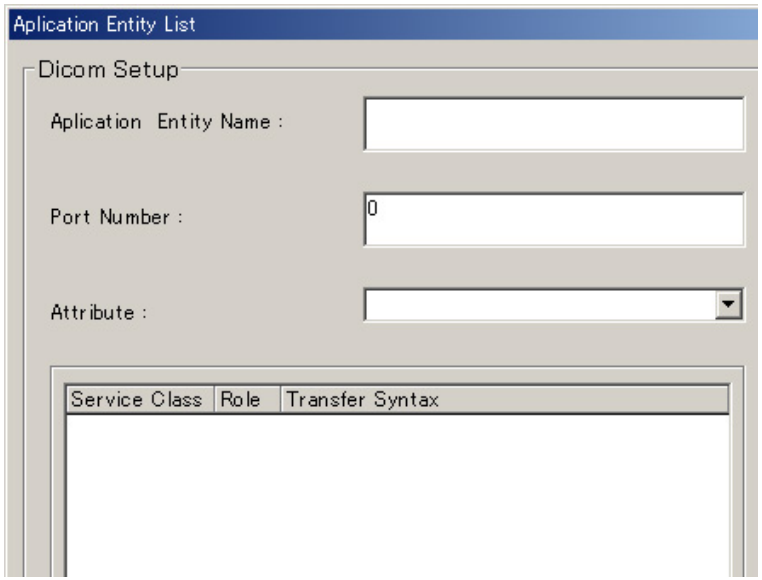
❍ Enter the IP address (e.g.: “172.16.1.30”) in the IP Address : field.

❍ Select “DICOM”.



3. Click OK.

➔ The "Application Entity List" window opens for setup of information on other connected equipment.



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4. Make the following settings.

❍ Enter the AE name of other connected equipment (e.g.: "HCI655a-SCP") in the Aplication Entity Name : field.

◆ NOTE ◆

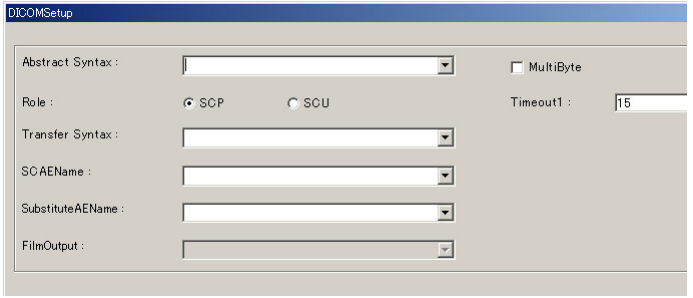
• Never fail to enter the SCP AE name.
• Be sure to enter the upper- or lower-case characters correctly.

❍ Enter the Port number of other connected equipment (e.g.: "5001") in the Port Number : 0 field.

❍ Click downward arrow of the Attribute : field and select device attribute of other connected equipment ("HD_FILE" for the HI-C655 and QA-WS and OD_FILE for the ODF).

5. Click New.

➔ The "DICOMSetup" window opens.



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6. Click downward arrow of the Abstract Syntax : field and select Service Class (e.g.: "Private CR Storage").

- CR Image Storage
- Private CR Storage
- Private Unstandardized CR Storage
- Verification

➥ *REFERENCE*

• If "Private CR Storage" is selected, items that need not be set will be hidden on the "DICOM Setup" window.
• "Verification" is the Service Class used to verify connection between DICOM equipment units. For verifying connection, "Verification" must be selected.

7. Because the AE of other connected equipment is the Provider, make sure that SCP (SCP) is selected for the Role.

8. Click downward arrow in the Transfer Syntax : field to select Transfer Syntax (e.g.: "ImplicitVRLittleEndian").

Service Class	Transfer Syntax Supported (Selected)		
	ImplictVR LittleEndian	ExplictVR LittleEndian	JPEG Lossless
●CR Image Storage ●Private CR Storage	○	○	○
Private Unstandardized CR Storage	×	×	○
Verification	○	×	×

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◆ NOTE ◆

Be sure to select the same Transfer Syntax as that selected for this equipment.

9. Change the following settings as required.

❍ Setting of Acceptable Density: ST / ST & HQ / ST & HQ & SH

ST : Select if other connected equipment cannot receive HQ images.

ST & HQ : Select if other connected equipment can receive HQ images.

ST & HQ & SH : Select if the other connected equipment can receive mammographic images as well.

❍ Setting of Default Output Density: ST / HQ / SH

ST : Select when transferring standard images only.

HQ/SH : Select when transferring HQ or mammographic images.

10. Make sure that NONE(N) within the Image Processing field is checked (NONE(N)).

Image Processing: NONE(N) / PROC

◆ NOTES ◆

- *if the "IR346 DICOM IM PROCESSED" option key has not been installed, the "Image Processing" function will be disregarded even though "PROC" is selected (the result will be as if "NONE" has been selected).*
- *For software version A02 or later, it will be grayed out if option key is not installed.*

11. To handle two-byte characters, check the MultiByte box (to).

➥ REFERENCE

Timeout1 : 15 *and* Timeout2 : 300 *need not be checked. Even if checked, they will be disregarded.*

12. Click OK.

➔ The system returns to the "Application Entity List" window.

13. Click OK.

➔ The system returns to the "Setup Configuration Item" window.

14. Select "Save" from the "Config (F)" menu.

➔ A window opens, prompting you to confirm the setup data to be saved.

15. Click Yes.

➔ The system saves the setup data.

2.1.6 Settings of Automatic Image Distribution

For an automatic image distribution to equipment of HD_FILE attribute, set up DISTRIBUTION CODE.

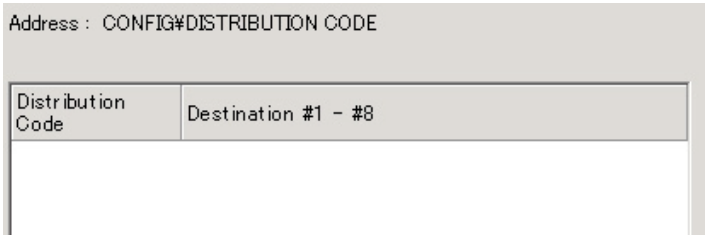
◆ NOTE ◆

For an automatic image distribution processing, be sure to change to "Yes" ahead of time the setting (item 3 of "SYSTEM CONFIG" ➔ "5.CSL/IDT FUNCTION") under "Enable Distribution Code Setup" of the Service Utility function.

☞ For an automatic distribution to equipment of OD_FILE attribute, perform the procedure described in "2.1.7 Setup for CONNECTING EQUIPMENT".

1. **Click ⊟ DISTRIBUTION CODE of the "Setup Configuration Item" window.**

➔ A list of destination equipment for automatic image distribution appears on the right-side area of the window.



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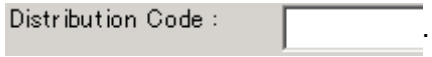
2. **Click [New].**

➔ The "Distribution Code" window opens.

3. **Make the following settings.**

❍ Enter an 8-digit distribution code (e.g.: 12345678) in



.

❍ Click downward arrow ▼ of

to select equipment's host or AE name ("HIC655a-SCP" as in the ■ Setup example).

4. **Click [OK].**

➔ The system returns to the "Setup Configuration Item" window.

5. **Select "Save" from the "Config (F)" menu.**

➔ A window opens, prompting you to confirm the setup data to be saved.

6. **Click [Yes].**

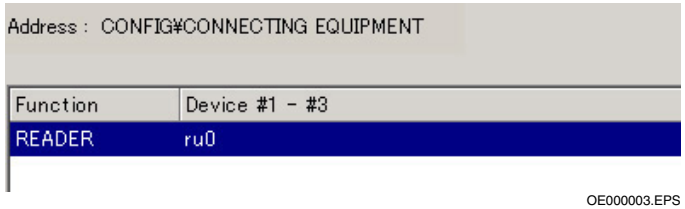
➔ The system saves the setup data.

2.1.7 Setup for CONNECTING EQUIPMENT

To automatically transfer images to the ODF, set up CONNECTING EQUIPNET as directed below.

1. Click ⊟ CONNECTING EQUIPMENT on the "Setup Configuration Item" window.

➔ A list of registered equipment units appears on the right side of the window.



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2. Click New.

➔ The "CONNECTING EQUIPMENT" window opens.

3. Make the following settings.

❍ Click the downward arrow within Function : and select function (OD_FILE) of the connected equipment.

◆ NOTE ◆

With software version A00, "HD_FILE" can be selected in the "Function" box. However, even though "HD_FILE" has been selected, no images will be transferred to equipment of "HD_FILE" attribute automatically. It is thus necessary to make setup for DISTRIBUTION CODE if you wish to transfer images of "HD_FILE" attribute automatically.

☞ *"2.4.3 Setup for Automatic Image Distribution (DISTRIBUTION CODE)"*

❍ Click the downward arrow within Equipment #1 : and select equipment (ODF host name).

4. Click OK.

➔ You are returned to the "Setup Configuration Item" window.

5. Select "Save" from the "Config (F)" menu.

➔ A window opens prompting you to confirm the setup data.

6. Click Yes.

➔ The setup data will then be saved.

2.1.8 Settings for UID Issuance

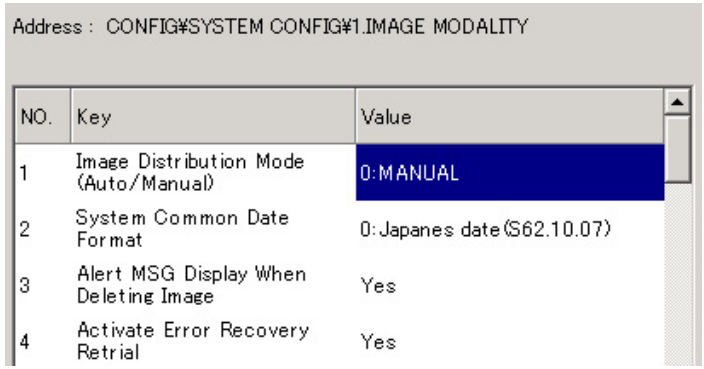
Use the procedure below if the UID issuance method needs be changed depending on the specifications of other connected equipment which the image is transferred to.

For default settings, see Table: List of UID settings.

1. **Click the ⊞ mark of ⊞ SYSTEM CONFIG of the "Setup Configuration Item" window.**

2. **Click ⊟ 1.IMAGE MODALITY.**

➔ The content of the setup items for the CL system information appears on the right-side area of the window.



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3. **Make UID issuance settings as follows.**

Table List of UID setting

No.	Name	Selection	Meaning
9	UID Issuance after Modifying ID Information	❍ YES Issues a new UID. ◎ NO Does not issue a new UID.	Whether or not to issue a new image UID or SOP Instance UID when any ID information is modified on the CL.
10	UID Issuance after Modifying Normalized Parameter	◎ YES Issues a new UID. ❍ NO Does not issue a new UID.	Whether or not to issue a new image UID or SOP Instance UID when image normalization conditions are modified on the CL.
11	UID Issuance after Modifying Image Processing Parameter	❍ YES Issues a new UID. ◎ NO Does not issue a new UID.	Whether or not to issue a new image UID or SOP Instance UID when image processing conditions are modified on the CL.
12	UID Issuance Before Sending Processed Data	◎ YES Issues a new UID. ❍ NO Does not issue a new UID.	Whether or not to issue a new image UID or SOP Instance UID when outputting processed images from the CL.
13	DICOM Series Generation Logic	◎ 0: 1 Study - N series and 1 Series - 1 image Issues a number so that it has multiple series for one study and only one image for one series. ❍ 0: 1 Study - N series and 1 Series - M image Issues a number so that it has multiple series for one study and multiple images for one series. ❍ 0: 1 Study - 1 series and 1 Series - N image Issues a number so that it has only one series for one study and multiple images for one series.	Setup of Series Instance UID issuance logic. <Ref.> See "3.4 Config Details – 1. IMAGE MODALITY" under "MU: Maintenance Utility".

◎: Default setting

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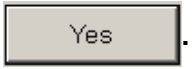
4. **Select “Save” from the “Config (F)” menu.**

➔ A window opens, prompting you to confirm the setup data to be saved.

5. **Click** 

.

➔ The system saves the setup data.

2.1.9 Changing the Name Elements

☞ See “3.7 Setting the Name Elements for DICOM Connection” under “MU: Maintenance Utility”.

2.1.10 Service Utility Shutdown

1. **Select “Close” from the “Config (F)” menu.**

➔ The system returns to the “IIP Service Utility” window.

2. **Click [Exit Service Utility].**

➔ The system returns to the desktop screen.

2.2 Software Setup on Other Connected Equipment

Set up DICOM CR Storage in accordance with the software specifications of other connected equipment so that it can receive images from the CL.

- For the HI-C655

  ☞ See “5.3.1 Setup Using hic655a” under Installation of the HI-C655 Service Manual when other connected equipment is the HI-C655.

- For the QA-WS

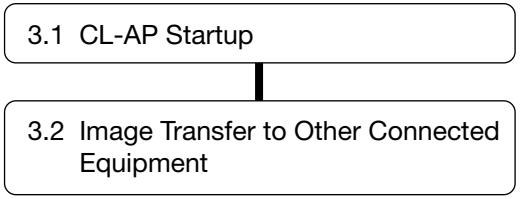
  ☞ See “5.3.1 Settings on QA-WS” under Installation of the QA-WS Service Manual.

- Other devices

  ☞ See DICOM-related descriptions included in the manual of each device.

3. Connection Checkout

After the CL-AP is started, makes sure that images can be transferred from the CL to other connected equipment.



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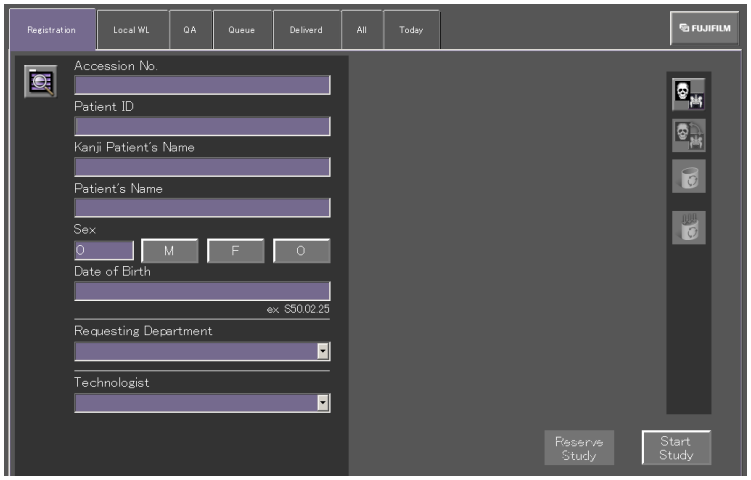
3.1 CL-AP Startup

1. **From the Start menu, sequentially select “Programs”, “Fuji Film” and “FCR”.**

➔ The CL opening window opens.
In about one minute, the CL-AP reception window opens.



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3.2 Image Transfer to Other Connected Equipment

Transfer images accumulated in the CL to other connected equipment.

1. **Select an image for transfer, then transfer it to other connected equipment.**

☞ For details of the image transfer procedures, see the CL Operation Manual.

2. **Make sure that the image has actually been transferred to other connected equipment.**

☞ For details of the transferred image checking procedures, see the operation manual attached to each equipment.

4. Setup File Backup

Back up the CL setup file.

Have the following item ready for use for file backup:

• Two DOS/V-formatted FDs.

☞ For details on the backup procedure, see “5. Restoring/Backing Up the Configuration File – Configuration Restore/Backup”, under “MU: Maintenance Utility”.

CL+Other (DICOM CR Storage: Transfer of Processed Images)

Described herein is the procedure for transferring processed images from the CR-IR346CL to other connected equipment using the DICOM CR Storage (Standard) function.

◆ *NOTE* ◆

The "CR-IR346CL" and the image transmission equipment are abbreviated hereafter "CL" and other connected equipment, respectively.

■ Prior to setup

● CL requirements

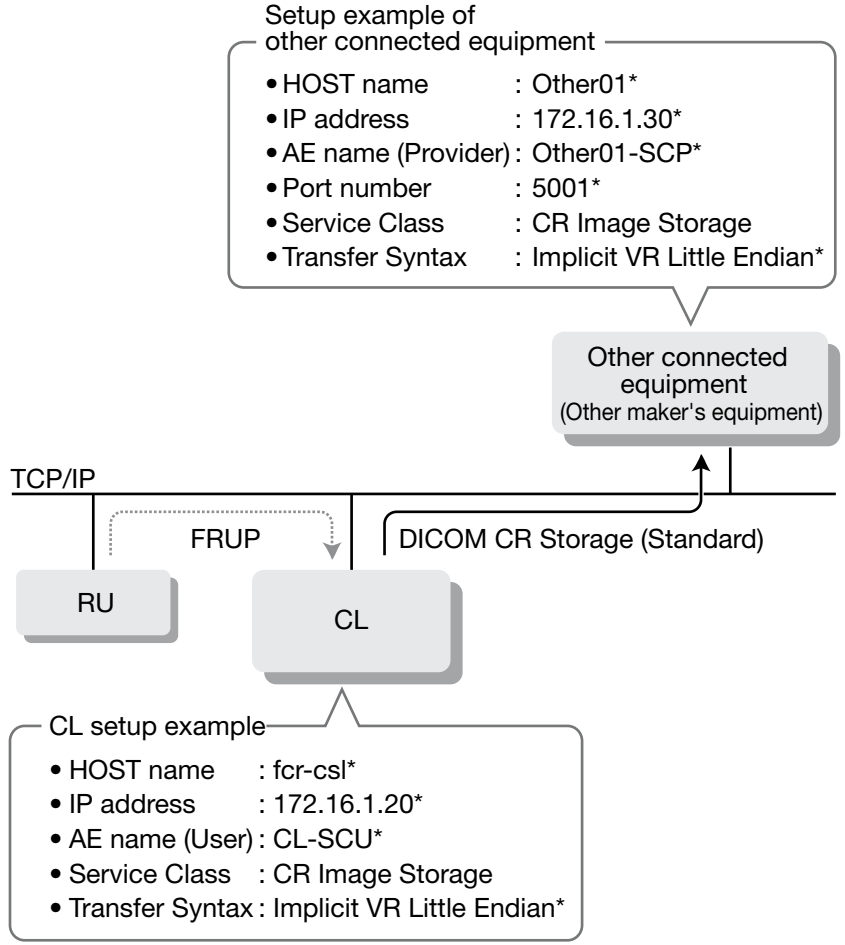
- The CL main unit must have been set up accordingly.
- Software version required: A00 or later
- Option keys are needed.

Key Name	Functions Supported
IR346 DICOM IM PROCESSED key	Generation of CR Storage SCU Standard processed images

● Requirements of other connected equipment

- Other connected equipment must have been set up accordingly.
- The DICOM CR Storage (SCP) Service Class must be supported.

■ Connection/setup example


Setup example of other connected equipment
• HOST name : Other01*
• IP address : 172.16.1.30*
• AE name (Provider) : Other01-SCP*
• Port number : 5001*
• Service Class : CR Image Storage
• Transfer Syntax : Implicit VR Little Endian*
Other connected equipment (Other maker's equipment)
TCP/IP
FRUP
DICOM CR Storage (Standard)
RU
CL
CL setup example
• HOST name : fcr-csl*
• IP address : 172.16.1.20*
• AE name (User) : CL-SCU*
• Service Class : CR Image Storage
• Transfer Syntax : Implicit VR Little Endian*

Items marked with "*" constitute setup examples, which need be changed depending on the equipment or network environment.

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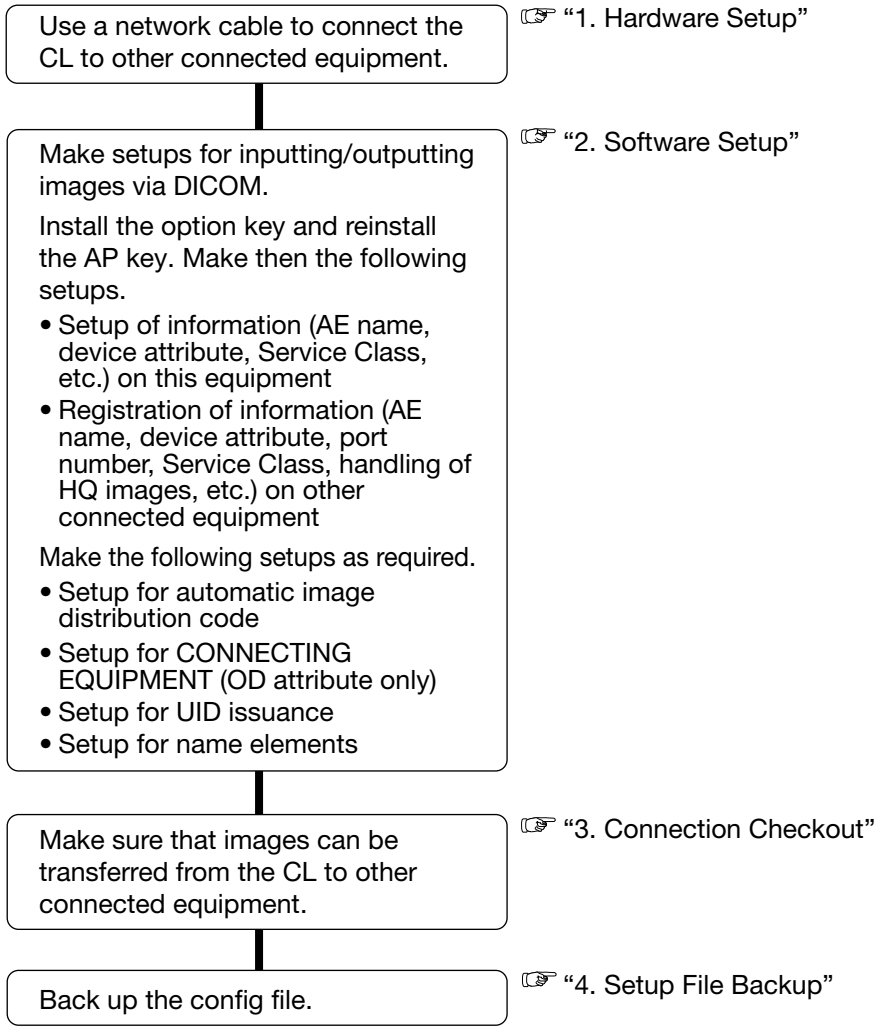
■ Overall operation flow


Use a network cable to connect the CL to other connected equipment.
☞ "1. Hardware Setup"
Make setups for inputting/outputting images via DICOM.
Install the option key and reinstall the AP key. Make then the following setups.
• Setup of information (AE name, device attribute, Service Class, etc.) on this equipment
• Registration of information (AE name, device attribute, port number, Service Class, handling of HQ images, etc.) on other connected equipment
Make the following setups as required.
• Setup for automatic image distribution code
• Setup for CONNECTING EQUIPMENT (OD attribute only)
• Setup for UID issuance
• Setup for name elements
☞ "2. Software Setup"
Make sure that images can be transferred from the CL to other connected equipment.
☞ "3. Connection Checkout"
Back up the config file.
☞ "4. Setup File Backup"

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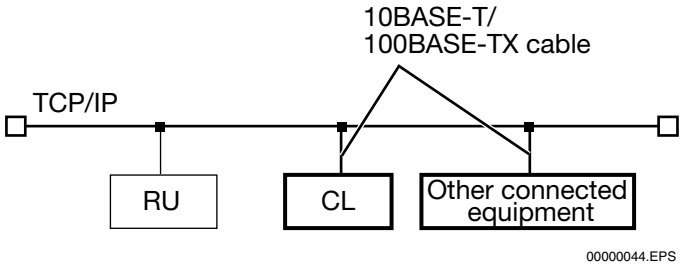
1. Hardware Setup

Connect the CL to other connected equipment via network as illustrated below.

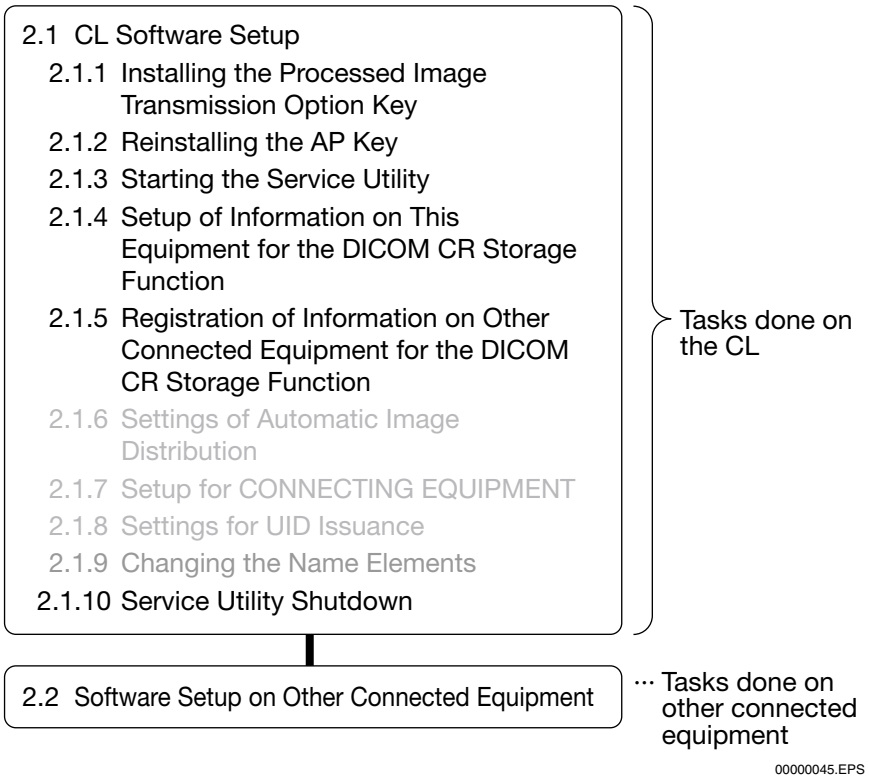


◆ *NOTES* ◆

- *Do not connect the telephone line to the network connectors of the CL and other connected equipment.*
- *The IEC950/UL1950-conformed cable is available for the CL.*

2. Software Setup

Set up software for the CL and other connected equipment.
Set up the items shown in gray as required. Be sure to set up all other items.


2.1 CL Software Setup
2.1.1 Installing the Processed Image Transmission Option Key
2.1.2 Reinstalling the AP Key
2.1.3 Starting the Service Utility
2.1.4 Setup of Information on This Equipment for the DICOM CR Storage Function
2.1.5 Registration of Information on Other Connected Equipment for the DICOM CR Storage Function
2.1.6 Settings of Automatic Image Distribution
2.1.7 Setup for CONNECTING EQUIPMENT
2.1.8 Settings for UID Issuance
2.1.9 Changing the Name Elements
2.1.10 Service Utility Shutdown
Tasks done on the CL
2.2 Software Setup on Other Connected Equipment
··· Tasks done on other connected equipment
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2.1 CL Software Setup

2.1.1 Installing the Processed Image Transmission Option Key

To activate the processed image transmission function, the IR346 DICOM IM PROCESSED option key is needed.

◆ *REFERENCE* ◆

To use the IR346 DICOM IM PROCESSED function, the IR346 DICOM CR STORAGE option key must have been installed accordingly.

☞ *If the IR346 DICOM CR STORAGE option key has not been installed, see "10. Option Key Installation" under "RI: Reinstalling the Software" to install it.*

1. **Insert the optional key CD into a CD-ROM drive.**

➔ Within several seconds, the installation start window opens.

2. **Click** Continue.

➔ A window opens to indicate the completion of LP option key installation.

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3. **Click** OK.

➔ The system returns to the desktop screen.

4. **Remove the CD from the CD-ROM drive.**

2.1.2 Reinstalling the AP Key

If the option key is installed, be sure to reinstall the AP key.

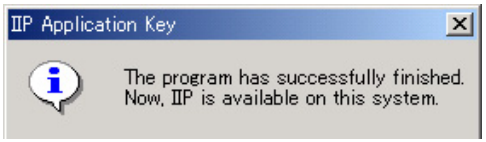
Use the AP key CD (114Y5342002A: Version A00 or later) to reinstall the AP key. The reinstallation procedure is shown below.

1. **Insert the AP key CD into the CD-ROM drive.**

➔ After a while, the installation start window automatically opens.

2. **Click** Continue.

➔ A window opens to indicate the completion of installation.



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3. **Click** OK.

➔ The system returns to the desktop screen.

4. **Remove the CD from the CD-ROM drive.**

2.1.3 Starting the Service Utility

1. **Turn ON the CL power.**

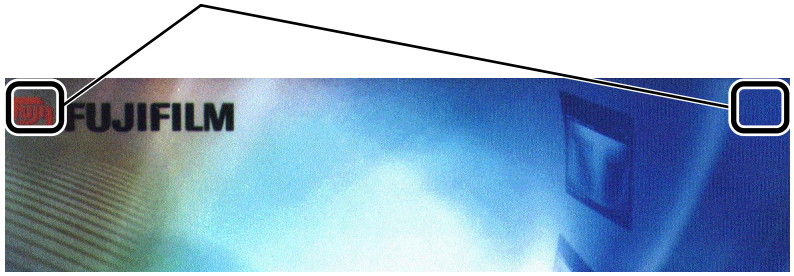
➔ Windows 2000 starts up and then the CL-AP starts running in about one minute.

➥ *REFERENCE*

If the AP or Windows 2000 is already running, start the Service Utility as directed under REFERENCE in step 2. below.

2. **Within a period of 5 seconds after the initial window opens, sequentially click the upper left and upper right corners of the window.**

Click the upper left corner and then the upper right corner.



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➔ The Service Utility mode starts and then the “IIP Service Utility” window opens.

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➥ *REFERENCE*

If you cannot complete step 2. from the initial window within a 5-second period and allow the AP to start up, perform the following steps to start the Service Utility:

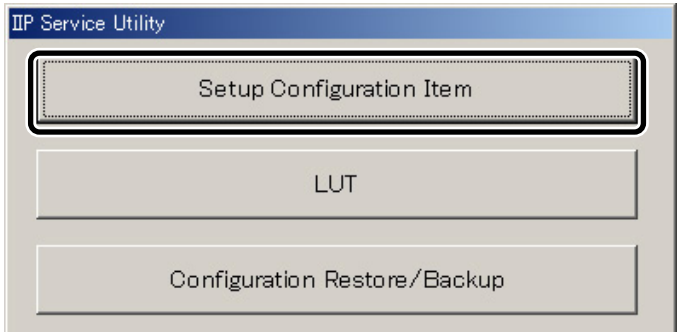
1. *To exit the AP, hold down the <Shift> key and choose “Shut Down” on the* FUJIFILM *menu.*
2. *From “Start” menu, sequentially choose “Programs”, “Fuji Film”, and “FCR”.*
3. *When the initial window opens, sequentially click its upper left and upper right corners within a period of 5 seconds.*

2.1.4 Setup of Information on This Equipment for the DICOM CR Storage Function

Make settings for the following information items of this equipment.

- Host name and IP address of this equipment
- AE name (Application Entity Name) and device attribute of this equipment
- Service Class, Role, Transfer Syntax
- Other (timeout settings, etc.)

1. **Click [Setup Configuration Item] of the “IIP Service Utility” window.**



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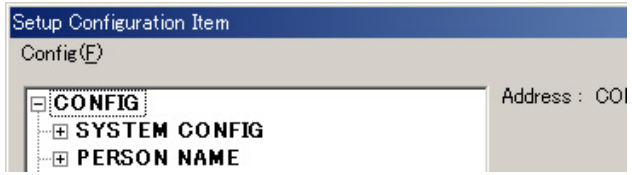
➔ The “Setup Configuration Item” window opens.



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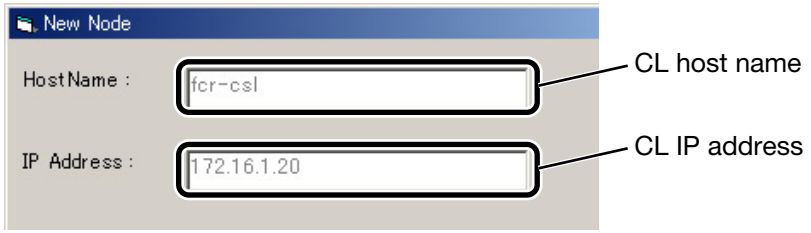
2. **Click the ⊞ mark of the ⊞ NETWORK CONFIG field.**

3. **Select ⊟ THIS HOST(IIP) and click New.**

➔ The “New Node” window opens.

4. Make sure that the CL host name and IP address are displayed.



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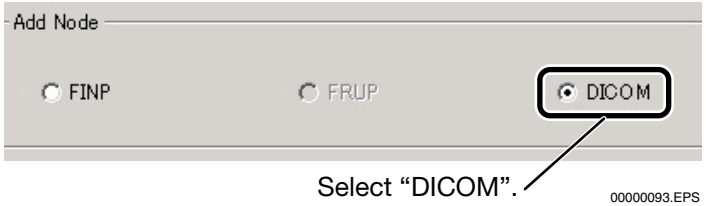
◆ ***NOTE*** ◆

The IP address will not be displayed properly unless the CL is connected to a network.

5. Select "DICOM" and click OK.



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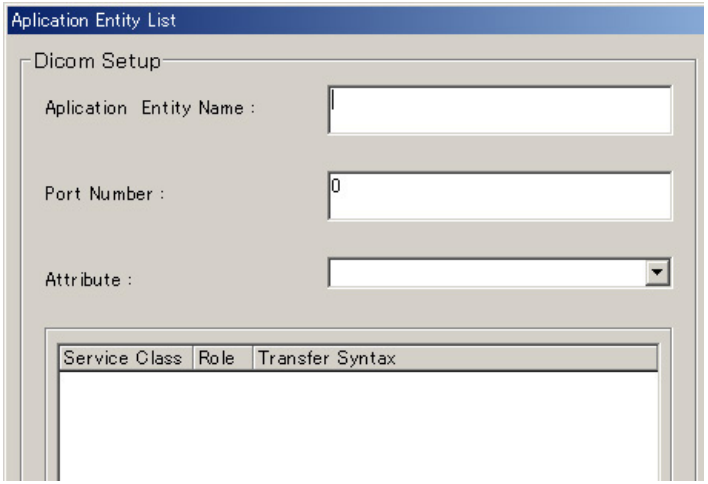
➔ The "Application Entity List" window opens.



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6. Make the following settings.

❍ Enter the AE name that is the SCU for the CL (e.g.: "CL-SCU") in the Aplication Entity Name : field.

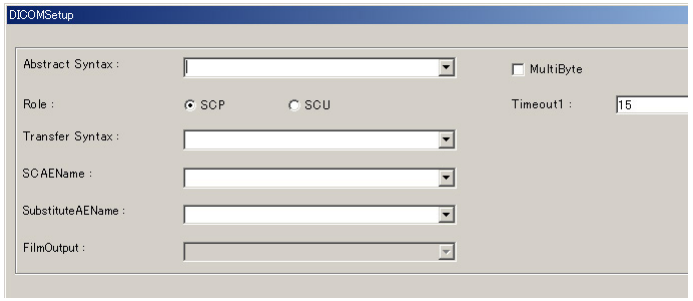
❍ Click downward arrow in the Attribute : field to select the device attribute (OTHER).

◆ ***NOTE*** ◆

- *To set the SCU AE on the CL, select "OTHER" for the device attribute for the time being.*
- *There is no need to set the port number in* Port Number : 0 *When selecting SCU as the Role, the set port number will be disregarded even if it is set.*

7. Click New.

➔ The "DICOMSetup" window opens.



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8. Click downward arrow in the Abstract Syntax : field to select Service Class (e.g.: “CR Image Storage”).

➥ ***REFERENCE***

- *If “CR Image Storage” is selected, items that need not be set will be hidden on the “DICOM Setup” window.*
- *“Verification” is the Service Class used to verify connection between DICOM equipment units. For verifying connection, “Verification” must be selected.*

☞ *For details of verification of connection, see “7. Verifying the Connection to Other Connected Equipment – Verify Connection” in “MU: Maintenance Utility”.*

9. To set up the AE that is the User, select SCU (SCU) for the Role.

➥ ***REFERENCE***

If “SCU” is selected, items that need not be set will be hidden on the “DICOM Setup” window.

10. Click downward arrow in the Transfer Syntax : field to select the Transfer Syntax (e.g.: “ImplicitVRLittleEndian”).

Service Class	Transfer Syntax Supported (Selected)		
	ImplictVR LittleEndian	ExplictVR LittleEndian	JPEG Lossless
CR Image Storage	○	○	○
Verification	○	×	×

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11. Set the DICOM inter-message timeout value Timeout1 : 15 as necessary.

Timeout2 : 300 needs not be set. Even if set, it will be disregarded.

➥ ***REFERENCE***

- *It is not necessary to check* MultiByte *. Even if checked, it will be disregarded if the Role set in step 9. above is the SCU.*
- Timeout2 : 300 *will be displayed only for software version A00.*

12. Click OK.

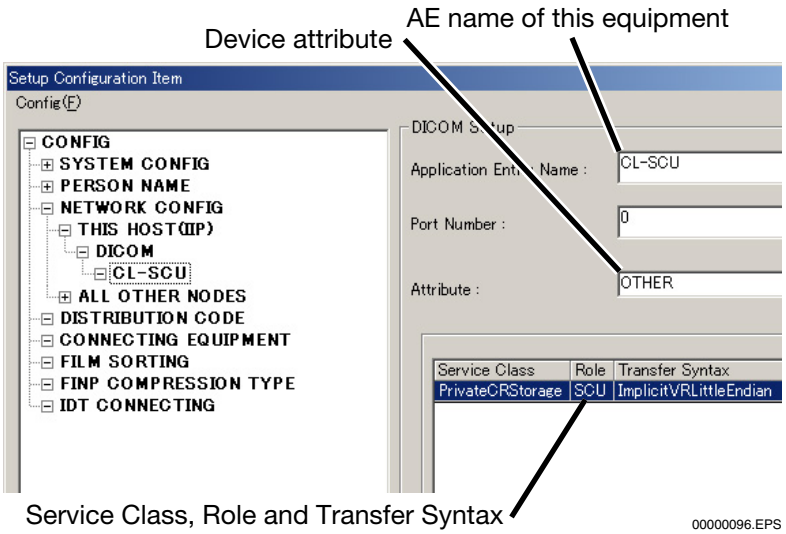
➔ The system returns to the “Application Entity List” window.

13. Click OK.

➔ The system returns to the “Setup Configuration Item” window.

➥ *REFERENCE*

- *Items just have been set will appear on the right-side area of the “Setup Configuration Item” window. A displayed item can be changed. Whenever it is changed, never fail to click* Apply.
- *If the* Delete *key is clicked, currently selected items are deleted.*



14. Select “Save” from the “Config (F)” menu.

➔ A window opens, prompting you to confirm the setup data to be saved.

15. Click Yes.

➔ The system saves the setup data.

2.1.5 Registration of Information on Other Connected Equipment for the DICOM CR Storage Function

Register the following information items of other connected equipment.

- Host name and IP address of other connected equipment
- AE name (Application Entity Name), port number, and device attribute of other connected equipment
- Service Class, Role, Transfer Syntax
- Other (usage of two-byte characters, settings for data conversion from HQ to standard image, etc.)

1. Select ⊞ ALL OTHER NODES of the “Setup Configuration Item” window and click New.

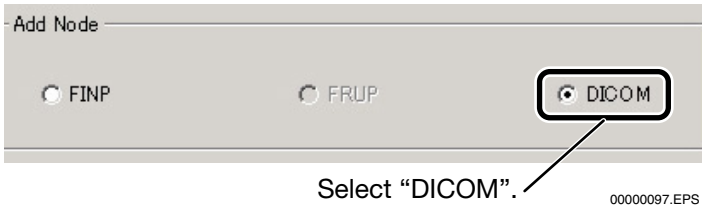
➔ The “New Node” window opens.

2. Make the following settings.

❍ Enter the Host name (e.g.: “Other01”) in the Host Name : field.

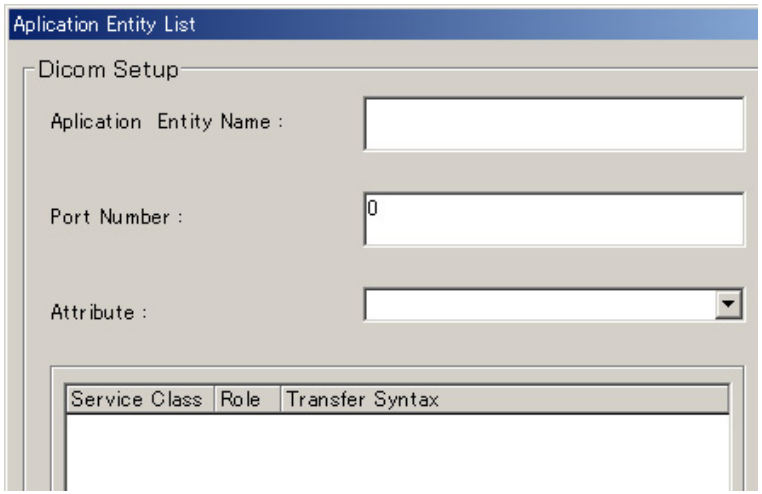
❍ Enter the IP address (e.g.: “172.16.1.30”) in the IP Address : field.

❍ Select “DICOM”.



3. Click OK.

➔ The “Application Entity List” window opens for setup of information on other connected equipment.



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4. Make the following settings.

❍ Enter the AE name of other connected equipment

(e.g.: “Other01-SCP”) in the Aplication Entity Name : field.

◆ NOTES ◆

- *Never fail to enter the SCP AE name.*
- *Be sure to enter the upper- or lower-case characters correctly.*

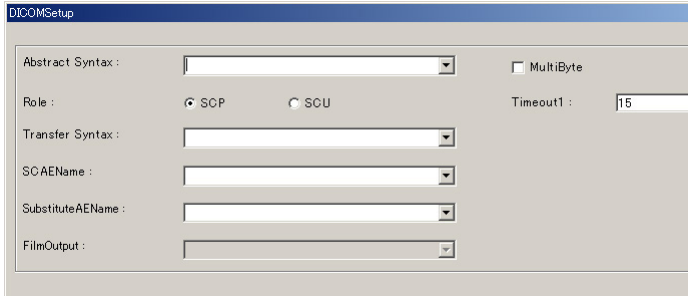
❍ Enter the Port number of other connected equipment

(e.g.: “5001”) in the Port Number : 0 field.

❍ Click downward arrow of the Attribute : field and select device attribute of other connected equipment (“HD_FILE”).

5. Click New.

➔ The “DICOMSetup” window opens.



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6. Click the downward arrow mark in the Abstract Syntax : field and select the “CR Image Storage” function.

➥ REFERENCE

- *If “CR Image Storage” is selected, items that need not be set will be hidden on the “DICOM Setup” window.*
- *“Verification” is the Service Class used to verify connection between DICOM equipment units. For verifying connection, “Verification” must be selected.*

7. Because the AE of other connected equipment is the Provider, make sure that SCP (SCP) is selected for the Role.

8. Click downward arrow ▼ in the Transfer Syntax : field to select Transfer Syntax (e.g.: “ImplicitVRLittleEndian”).

Service Class	Transfer Syntax Supported (Selected)		
	ImplictVR LittleEndian	ExplictVR LittleEndian	JPEG Lossless
CR Image Storage	○	○	○
Verification	○	×	×

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◆ ***NOTE*** ◆

Be sure to select the same Transfer Syntax as that selected for this equipment.

9. Change the following settings as required.

❍ Setting of Acceptable Density: ● ST ○ ST & HQ ○ ST & HQ & SH

ST : Select if other connected equipment cannot receive HQ images.
ST & HQ : Select if other connected equipment can receive HQ images.
ST & HQ & SH : Select if the other connected equipment can receive mammographic images as well.

❍ Setting of Default Output Density: ● ST ○ HQ / SH

ST : Select when transferring standard images only.
HQ/SH : Select when transferring HQ or mammographic images.

10. Select ○ PROC (○ ➔ ●) within the Image Processing: ● NONE(N) ○ PROC field.

11. To handle two-byte characters, check the ☐ MultiByte box (☐ to ☑).

➥ ***REFERENCE***

- Timeout1 : 15 *and* Timeout2 : 300 *need not be checked. Even if checked, they will be disregarded.*
- Timeout2 : 300 *will be displayed only for software version A00.*

12. Click OK.

➔ The system returns to the “Application Entity List” window.

13. Click OK.

➔ The system returns to the “Setup Configuration Item” window.

14. Select “Save” from the “Config (F)” menu.

➔ A window opens, prompting you to confirm the setup data to be saved.

15. Click Yes.

➔ The system saves the setup data.

2.1.6 Settings of Automatic Image Distribution (DISTRIBUTION CODE)

For an automatic image distribution to equipment of HD_FILE attribute, set up DISTRIBUTION CODE.

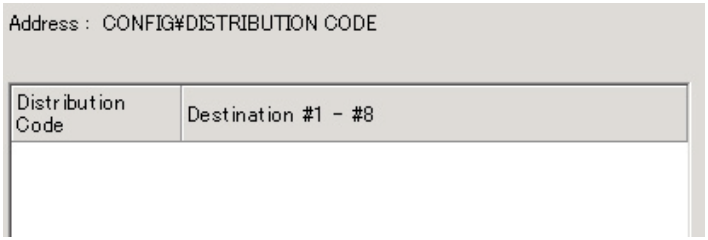
◆ NOTE ◆

For an automatic image distribution processing, be sure to change to "Yes" ahead of time the setting (item 3 of "SYSTEM CONFIG"➔ "5.CSL/IDT FUNCTION") under "Enable Distribution Code Setup" of the Service Utility function.

☞ For an automatic distribution to equipment of OD_FILE attribute, perform the procedure described in "2.4.4 Setup for CONNECTING EQUIPMENT".

1. Click ⊟ DISTRIBUTION CODE of the "Setup Configuration Item" window.

➔ A list of destination equipment for automatic image distribution appears on the right-side area of the window.



2. Click New.

➔ The "Distribution Code" window opens.

3. Make the following settings.

❍ Enter an 8-digit distribution code (e.g.: 12345678) in

.

❍ Click downward arrow ▼ of

to select equipment's host or AE name (e.g.: "Other01-SCP").

4. Click OK.

➔ The system returns to the "Setup Configuration Item" window.

5. Select "Save" from the "Config (F)" menu.

➔ A window opens, prompting you to confirm the setup data to be saved.

6. Click Yes.

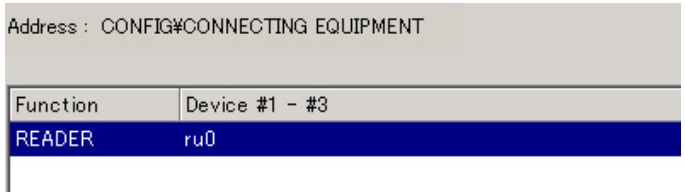
➔ The system saves the setup data.

2.1.7 Setup for CONNECTING EQUIPMENT

To automatically transfer images to the ODF, set up CONNECTING EQUIPNET as directed below.

1. Click ⊟ CONNECTING EQUIPMENT on the "Setup Configuration Item" window.

➔ A list of registered equipment units appears on the right side of the window.



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2. Click New.

➔ The "CONNECTING EQUIPMENT" window opens.

3. Make the following settings.

❍ Click the downward arrow within Function : and select function (OD_FILE) of the connected equipment.

◆ NOTE ◆

With software version A00, "HD_FILE" can be selected in the "Function" box. However, even though "HD_FILE" has been selected, no images will be transferred to equipment of "HD_FILE" attribute automatically. It is thus necessary to make setup for DISTRIBUTION CODE if you wish to transfer images of "HD_FILE" attribute automatically.

☞ *"2.4.3 Setup for Automatic Image Distribution (DISTRIBUTION CODE)"*

❍ Click the downward arrow within Equipment #1 : and select equipment (ODF host name).

4. Click OK.

➔ You are returned to the "Setup Configuration Item" window.

5. Select "Save" from the "Config (F)" menu.

➔ A window opens prompting you to confirm the setup data.

6. Click Yes.

➔ The setup data will then be saved.

2.1.8 Settings for UID Issuance

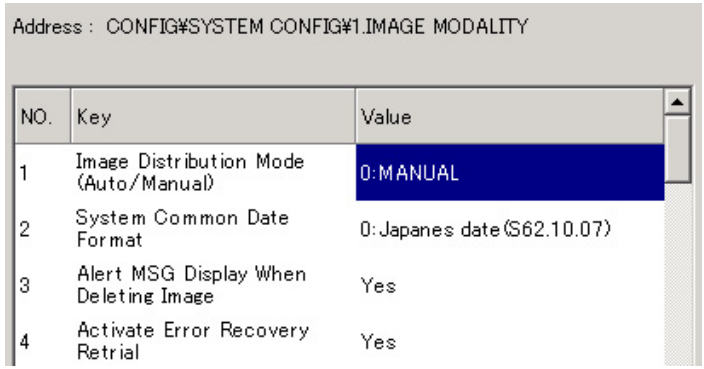
Use the procedure below if the UID issuance method needs be changed depending on the specifications of other connected equipment which the image is transferred to.

For default settings, see Table: List of UID settings.

1. **Click the ⊞ mark of ⊞ SYSTEM CONFIG of the "Setup Configuration Item" window.**

2. **Click ⊟ 1.IMAGE MODALITY.**

➔ The content of the setup items for the CL system information appears on the right-side area of the window.



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3. **Make UID issuance settings as follows.**

Table List of UID setting

No.	Name	Selection	Meaning
9	UID Issuance after Modifying ID Information	❍ YES Issues a new UID. ◎ NO Does not issue a new UID.	Whether or not to issue a new image UID or SOP Instance UID when any ID information is modified on the CL.
10	UID Issuance after Modifying Normalized Parameter	◎ YES Issues a new UID. ❍ NO Does not issue a new UID.	Whether or not to issue a new image UID or SOP Instance UID when image normalization conditions are modified on the CL.
11	UID Issuance after Modifying Image Processing Parameter	❍ YES Issues a new UID. ◎ NO Does not issue a new UID.	Whether or not to issue a new image UID or SOP Instance UID when image processing conditions are modified on the CL.
12	UID Issuance Before Sending Processed Data	◎ YES Issues a new UID. ❍ NO Does not issue a new UID.	Whether or not to issue a new image UID or SOP Instance UID when outputting processed images from the CL.
13	DICOM Series Generation Logic	◎ 0: 1 Study - N series and 1 Series - 1 image Issues a number so that it has multiple series for one study and only one image for one series. ❍ 0: 1 Study - N series and 1 Series - M image Issues a number so that it has multiple series for one study and multiple images for one series. ❍ 0: 1 Study - 1 series and 1 Series - N image Issues a number so that it has only one series for one study and multiple images for one series.	Setup of Series Instance UID issuance logic. <Ref.> See "3.4 Config Details – 1. IMAGE MODALITY" under "MU: Maintenance Utility".

◎: Default setting

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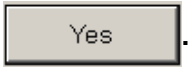
4. Select “Save” from the “Config (F)” menu.

➔ A window opens, prompting you to confirm the setup data to be saved.

5. Click 

.

➔ The system saves the setup data.

2.1.9 Changing the Name Elements

☞ See “3.7 Setting the Name Elements for DICOM Connection” under “MU: Maintenance Utility”.

2.1.10 Service Utility Shutdown

1. Select “Close” from the “Config(F)” menu.

➔ The system returns to the “IIP Service Utility” window.

2. Click [Exit Service Utility].

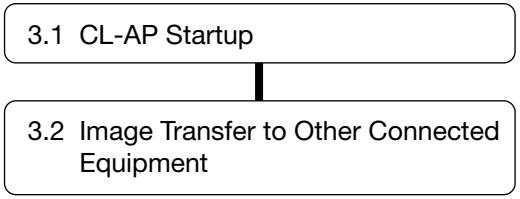
➔ The system returns to the desktop screen.

2.2 Software Setup on Other Connected Equipment

Set up DICOM CR Storage in accordance with the software specifications of other connected equipment so that it can receive images from the CL.

3. Connection Checkout

After the CL-AP is started, makes sure that images can be transferred from the CL to other connected equipment.



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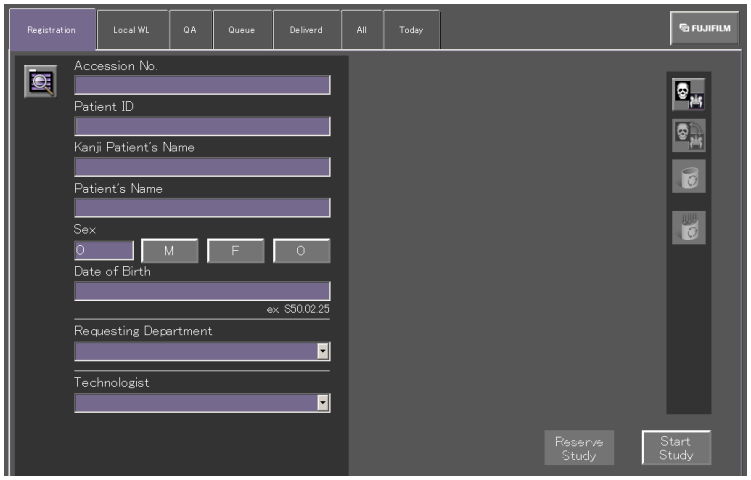
3.1 CL-AP Startup

1. **From the Start menu, sequentially select “Programs”, “Fuji Film” and “FCR”.**

➔ The CL opening window opens.
In about one minute, the CL-AP reception window opens.



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3.2 Image Transfer to Other Connected Equipment

Transfer images accumulated in the CL to other connected equipment.

1. **Select an image for transfer, then transfer it to other connected equipment.**

☞ For details of the image transfer procedures, see the CL Operation Manual.

2. **Make sure that the image has actually been transferred to other connected equipment.**

☞ For details of the transferred image checking procedures, see the operation manual attached to each equipment.

4. Setup File Backup

Back up the CL setup file.

Have the following item ready for use for file backup:

- Two DOS/V-formatted FDs.

☞ For details on the backup procedure, see “5. Restoring/Backing Up the Configuration File – Configuration Restore/Backup”, under “MU: Maintenance Utility”.

CL+DICOM Print

Described below are setup procedures used for printing images onto the FN-PS551, DRYPIX or FM-DP L from the CR-IR346CL using the DICOM Print function.

◆ *NOTE* ◆

The "CR-IR346CL" is abbreviated hereafter simply "CL". The "FN-PS551" and "DRYPIX" or "FM-DP L" are abbreviated "other connected equipment."

■ Before setup

● CL requirements

- The CL main unit must have been set up accordingly.
- Software version required: A00 or later.
- The option key is required.

Key Name	Function Supported
IR346 DICOM Print key	Basic Grayscale Print

● Requirements of other connected equipment

❍ FN-PS551

- Other connected equipment must have been set up accordingly.
- Software version required: A04 or later.

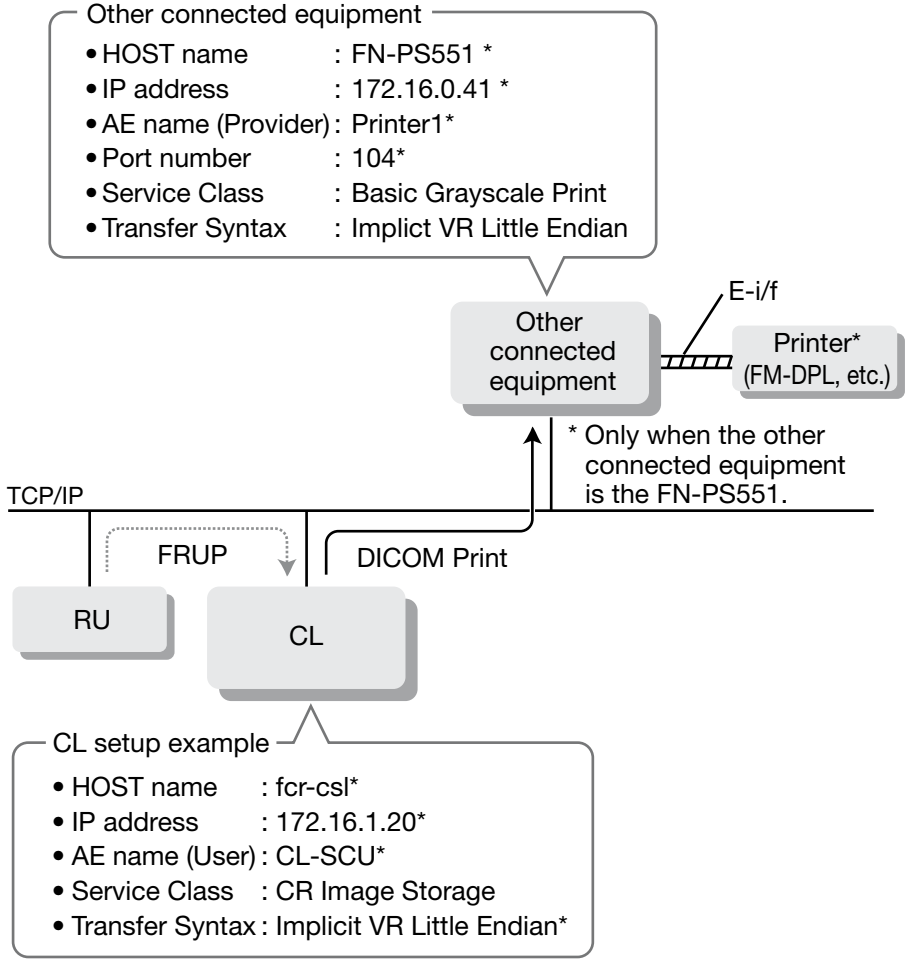
❍ DRYPIX

- Other connected equipment main unit must have been set up accordingly.
- Software version required : A00 or later.

❍ FM-DP L

- Other connected equipment main unit must have been set up accordingly.
- Software version required: B03 or later.
- A network board is required.

■ Connection/setup example


Other connected equipment
• HOST name : FN-PS551 *
• IP address : 172.16.0.41 *
• AE name (Provider) : Printer1*
• Port number : 104*
• Service Class : Basic Grayscale Print
• Transfer Syntax : Implict VR Little Endian
Other connected equipment
E-i/f
Printer* (FM-DPL, etc.)
* Only when the other connected equipment is the FN-PS551.
TCP/IP
FRUP
DICOM Print
RU
CL
CL setup example
• HOST name : fcr-csl*
• IP address : 172.16.1.20*
• AE name (User) : CL-SCU*
• Service Class : CR Image Storage
• Transfer Syntax : Implicit VR Little Endian*

Items marked with "*" constitute setup examples, which need to be changed depending on the equipment or network environment.

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➥ *REFERENCE*

The default DRYPIX user AE name is "FCR-CSL".

■ Overall operation flow

Use a network cable to connect the CL to other connected equipment. If other connected equipment is the FN-PS551, use an E-i/f cable to connect it to the printer.

☞ "1. Hardware Setup"

Make setups for printing images onto other connected equipment using the DICOM Print function.

Install the option key and reinstall the AP key. Make then the following setups.

- Setup of information (AE name, device attribute, Service Class, etc.) on this equipment
- Setup of information (AE name, device attribute, port number, Service Class, DICOM Print output conditions, handling of HQ images, etc.) on other connected equipment

Make the following setups as required.

- Registration of a printer for automatic image printout after the completion of a study
- Setup for film annotation character output format
- Setup for name components

☞ "2. Software Setup"

Make sure that images can be transferred from the CL to other connected equipment and printed correctly from it.

☞ "3. Connection Checkout"

Back up the config file.

☞ "4. Setup File Backup"

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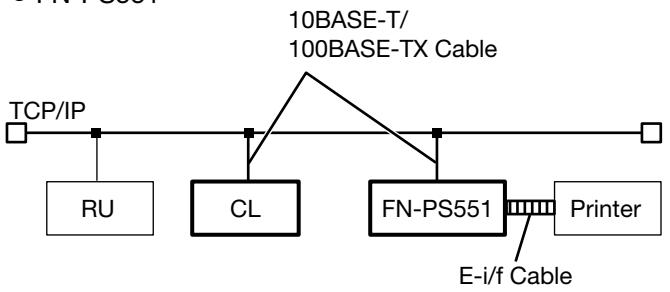
1. Hardware Setup

Connect the CL to other connected equipment via network as illustrated below.

● FN-PS551



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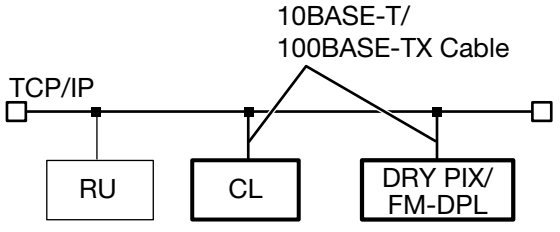
● DRYPIX or FM-DP L



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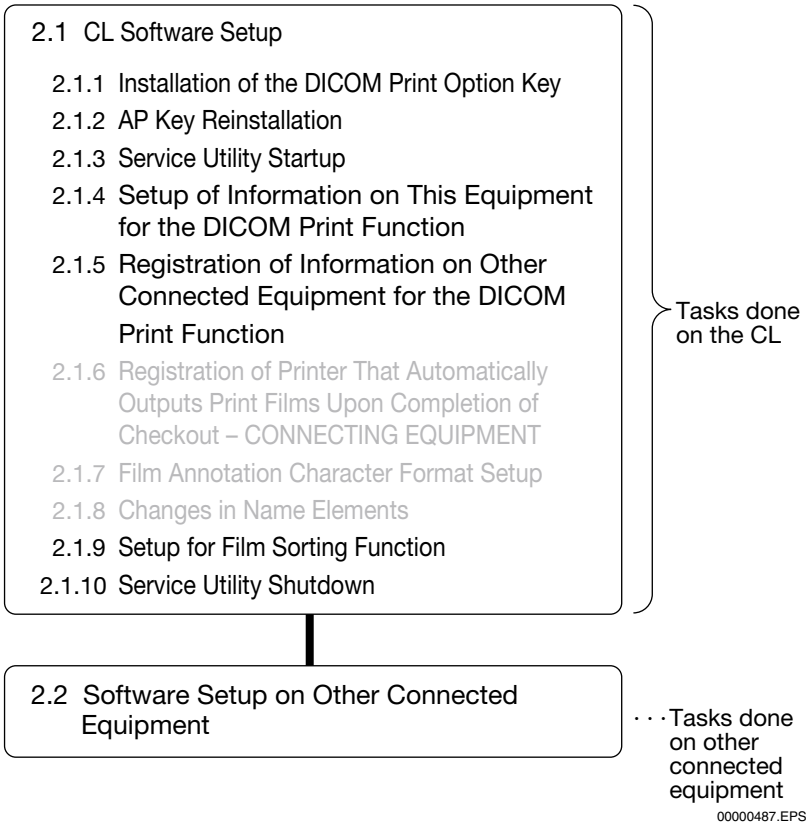
◆ *NOTES* ◆

- *Do not connect the telephone line to the network connectors of the CL and other connected equipment.*
- *The IEC950/UL1950-conformed cable is available for these equipment units (CR-IR346CL, FN-PS551, DRYPIX, FM-DP L).*

2. Software Setup

Set up software for the CL and other connected equipment.
Set up the items in gray as required. Be sure to set up all other items.


2.1 CL Software Setup
2.1.1 Installation of the DICOM Print Option Key
2.1.2 AP Key Reinstallation
2.1.3 Service Utility Startup
2.1.4 Setup of Information on This Equipment for the DICOM Print Function
2.1.5 Registration of Information on Other Connected Equipment for the DICOM Print Function
2.1.6 Registration of Printer That Automatically Outputs Print Films Upon Completion of Checkout – CONNECTING EQUIPMENT
2.1.7 Film Annotation Character Format Setup
2.1.8 Changes in Name Elements
2.1.9 Setup for Film Sorting Function
2.1.10 Service Utility Shutdown
Tasks done on the CL
2.2 Software Setup on Other Connected Equipment
Tasks done on other connected equipment
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2.1 CL Software Setup

2.1.1 Installation of the DICOM Print Option Key

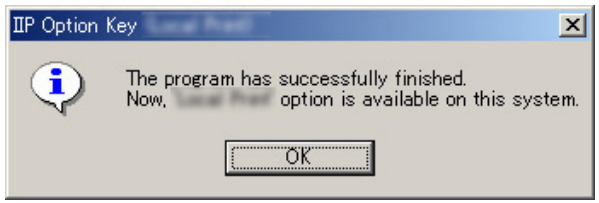
To activate the DICOM Print function on other connected equipment, the IR346 DICOM PRINT option key is needed.

1. **Insert the optional key CD into the CD-ROM drive.**

➔ Within several seconds, the installation start window opens.

2. **Click** Continue.

➔ A window opens to indicate the completion of option key installation.



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3. **Click** OK.

➔ The system returns to the desktop screen.

4. **Remove the CD from the CD-ROM drive.**

2.1.2 AP Key Reinstallation

If the option key is installed, be sure to reinstall the AP key.

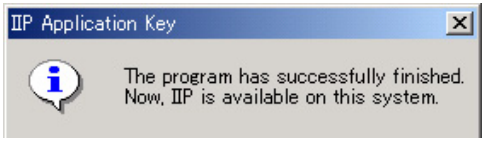
Use the AP key CD (114Y5342002A: Version A00 or later) to reinstall the AP key. The reinstallation procedure is shown below.

1. **Insert the AP key CD into the CD-ROM drive.**

➔ After a while, the installation start window automatically opens.

2. **Click** Continue.

➔ A window opens to indicate the completion of installation.



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3. **Click** OK.

➔ The system returns to the desktop screen.

4. **Remove the CD from the CD-ROM drive.**

2.1.3 Service Utility Startup

1. **Turn ON the CL power.**

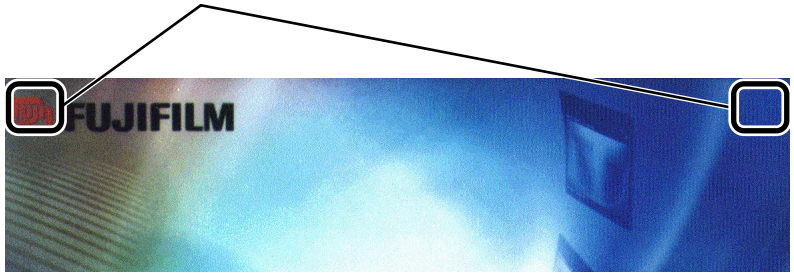
➔ Windows 2000 starts up and then the CL-AP starts running in about one minute.

➥ *REFERENCE*

If the AP or Windows 2000 is already running, start the Service Utility as directed under REFERENCE in step 2. below.

2. **Within a period of 5 seconds after the initial window opens, sequentially click the upper left and upper right corners of the window.**

Click the upper left corner and then the upper right corner.



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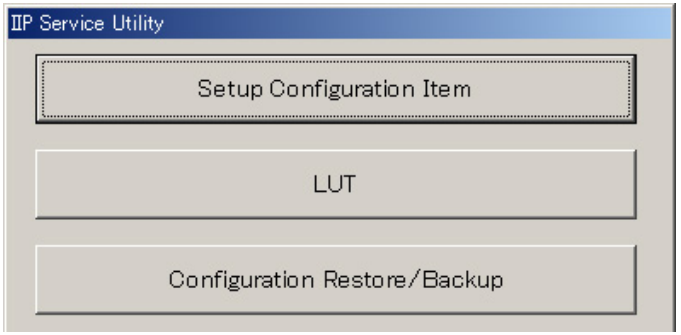
➔ The Service Utility mode starts and then the “IIP Service Utility” window opens.



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➥ *REFERENCE*

If you cannot complete step 2. from the initial window within a 5-second period and allow the AP to start up, perform the following steps to start the Service Utility:

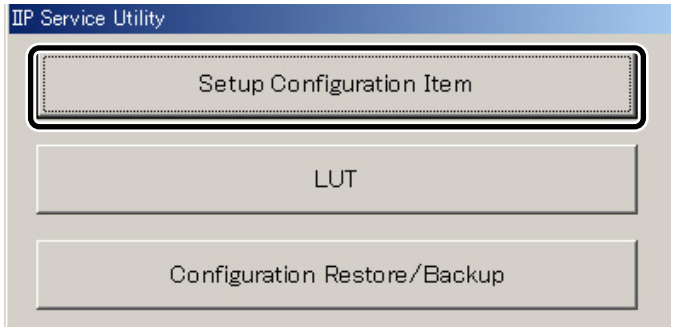
1. *To exit the AP, hold down the <Shift> key and choose "Shut Down" on the* FUJIFILM *menu.*
2. *From the "Start" menu, sequentially choose "Programs", "Fuji Film", and "FCR".*
3. *When the initial window opens, sequentially click its upper left and upper right corners within a period of 5 seconds.*

2.1.4 Setup of Information on This Equipment for the DICOM Print Function

Makes settings for the following information items of this equipment.

- Host name and IP address of this equipment
- AE name (Application Entity Name) and device attribute of this equipment
- Service Class, Role, Transfer Syntax
- Other (timeout settings, etc.)

1. **Click [Setup Configuration Item] of the "IIP Service Utility" window.**



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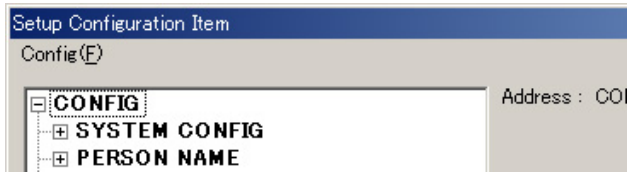
➔ The "Setup Configuration Item" window opens.



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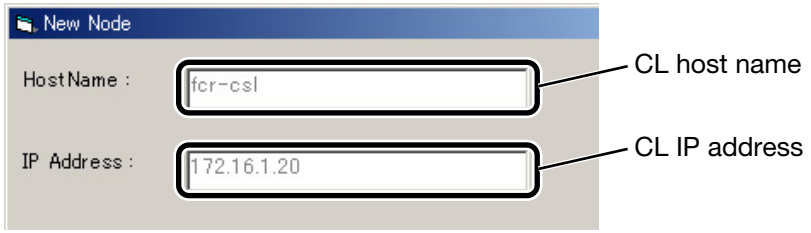
2. **Click the ⊞ mark of the ⊞ NETWORK CONFIG field.**

3. **Select ⊟ THIS HOST(IIP) and click New.**

➔ The "New Node" window opens.

4. Make sure that the CL host name and IP address are displayed.



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◆ **NOTE** ◆

The IP address will not be displayed properly unless the CL is connected to a network.

5. Select "DICOM" and click OK.

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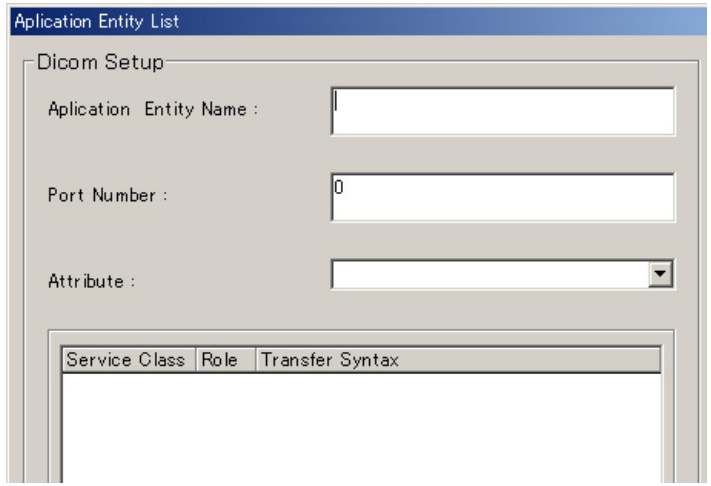
➔ The "Application Entity List" window opens.



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6. Make the following settings.

❍ Enter the AE name that is the SCU for the CL (e.g.: "CL-SCU") in the Aplication Entity Name : field.

➥ ***REFERENCE***

Enter "FCR-CSL" when the DRYPIX is connected. The default DRYPIX user AE name is "FCR-CSL".

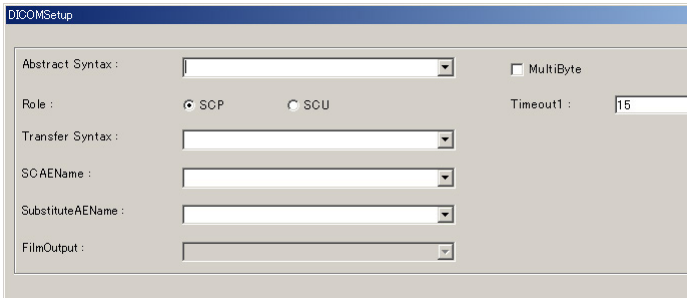
❍ Click downward arrow in the Attribute : field to select the device attribute (OTHER).

◆ **NOTES** ◆

- *To set the SCU AE on the CL, select "OTHER" for the device attribute for the time being.*
- *There is no need to set the port number in* Port Number : 0 *When selecting SCU as the Role, the set port number will be disregarded even if it is set.*

7. Click New.

➔ The "DICOMSetup" window opens.



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8. Click downward arrow in the Abstract Syntax : field to select Service Class (e.g.: “Basic Grayscale Print”).

➥ ***REFERENCE***

“Verification” is the Service Class used to verify connection between DICOM equipment units. For verifying connection, “Verification” must be selected.

☞ *For details of verification of connection, see “7. Verifying the Connection to Other Connected Equipment – Verify Connection” under “MU: Maintenance Utility”.*

9. To set up the AE that is the User, select SCU (SCU) for the Role.

➥ ***REFERENCE***

If “SCU” is selected, items that need not be set will be hidden on the “DICOM Setup” window.

10. Click downward arrow in the Transfer Syntax : field to select the Transfer Syntax (e.g.: “ImplicitVRLittleEndian”).

Service Class	Transfer Syntax Supported (Selected)		
	ImplictVR LittleEndian	ExplictVR LittleEndian	JPEG Lossless
Basic Grayscale Print	○	×	×
Verification	○	×	×

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11. Set the DICOM inter-message timeout value Timeout1 : 15 as necessary.

Timeout2 : 300 needs not be set. Even if set, it will be disregarded.

➥ ***REFERENCE***

It is not necessary to check MultiByte *.*

Even if checked, it will be disregarded if the Role set in step 9. above is the SCU.

12. Click OK.

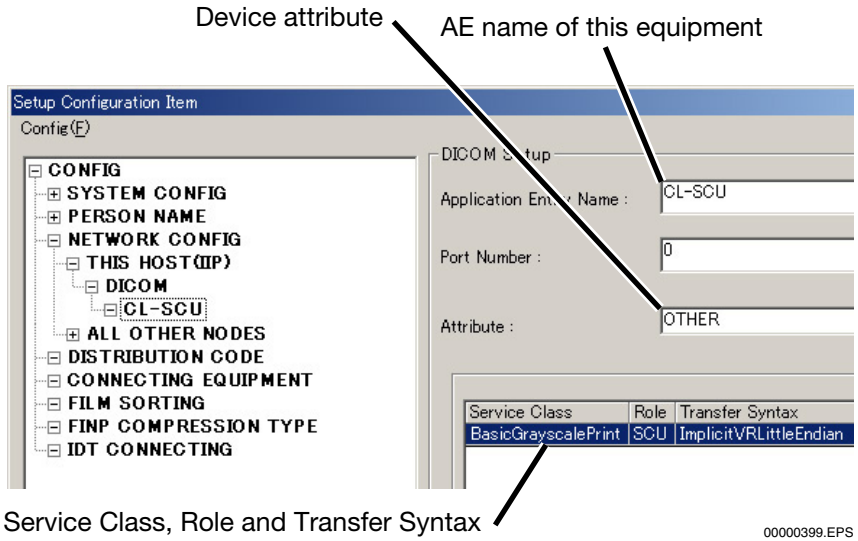
➔ The system returns to the “Application Entity List” window.

13. Click OK.

➔ The system returns to the “Setup Configuration Item” window.

➥ ***REFERENCE***

- *Items just have been set will appear on the right-side area of the “Setup Configuration Item” window.A displayed item can be changed. Whenever it is changed, never fail to click* Apply.
- *If the* Delete *key is clicked, currently selected items are deleted.*



14. Select “Save” from the “Config (F)” menu.

➔ A window opens, prompting you to confirm the setup data to be saved.

15. Click Yes.

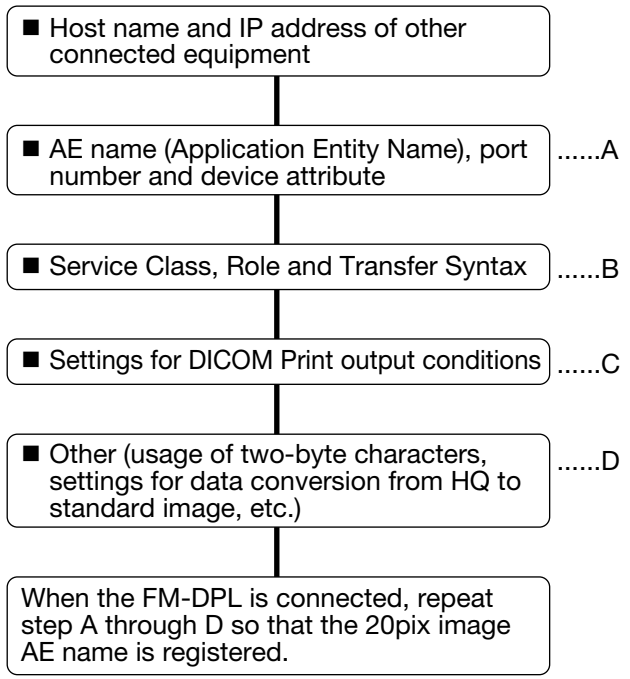
➔ The system saves the setup data.

2.1.5 Registration of Information on Other Connected Equipment for the DICOM Print Function

Register the following information items of other connected equipment.

- Host name and IP address of other connected equipment
- AE name (Application Entity Name), port number, and device attribute of other connected equipment
- Service Class, Role, Transfer Syntax
- Settings for DICOM Print output conditions
- Other (usage of two-byte characters, settings for data conversion from HQ to standard image, etc.)

Register the necessary information items according to the flow shown below.
Note that the setup procedure when the FM-DPL is connected will differ from that used for other devices.


■ Host name and IP address of other connected equipment
■ AE name (Application Entity Name), port number and device attribute
.....A
■ Service Class, Role and Transfer Syntax
.....B
■ Settings for DICOM Print output conditions
.....C
■ Other (usage of two-byte characters, settings for data conversion from HQ to standard image, etc.)
.....D
When the FM-DPL is connected, repeat step A through D so that the 20pix image AE name is registered.
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■ Host name and IP address of other connected equipment

1. Select ⊞ ALL OTHER NODES of the "Setup Configuration Item" window and click New.

➔ The "New Node" window opens.

2. Make the following settings.

❍ Enter the Host name (e.g.: "FN-PS551") in the HostName : field.

❍ Enter the IP address (e.g.: "172.16.0.41") in the IP Address : field.

❍ Select "DICOM".

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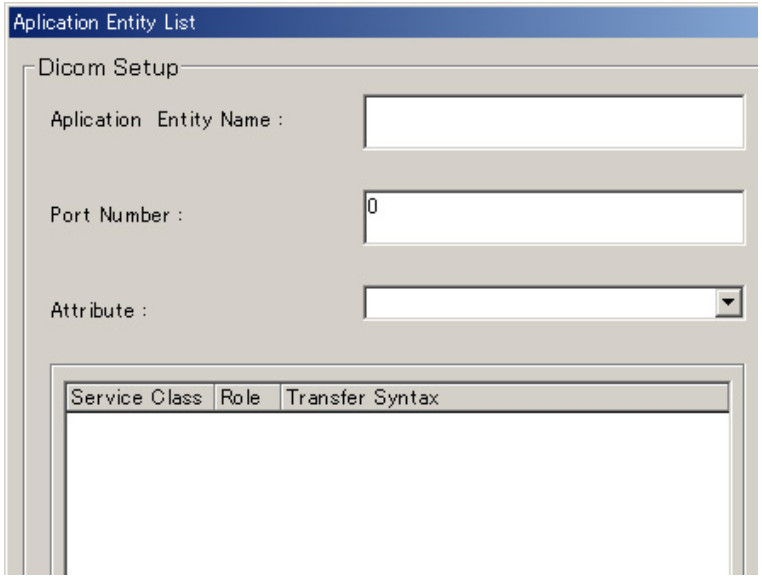
➥ ***REFERENCE***

Set as follows when the DRYPIX or FM-DP L is connected.

- *Host name: fujiprinter (default)*
- *IP address: 172.16.1.30 (default)*

3. Click OK.

➔ The "Application Entity List" window opens for setup of information on other connected equipment.



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■ AE name (Application Entity Name), port number, and device attribute of other connected equipment

1. **Make the following settings on the “Application Entity List” window.**

❍ Enter the AE name of other connected equipment (e.g.: “Printer1”) in the Aplication Entity Name : field.

◆ NOTE ◆

Be sure to enter the upper- or lower-case characters correctly.

❍ Enter the Port number of other connected equipment (e.g.: “104”) in the Port Number : 0 field.

❍ Click downward arrow of the Attribute : field and select device attribute of other connected equipment (“PRINT”).

➥ REFERENCE

Set as follows when the DRYPIX or FM-DPL is connected.

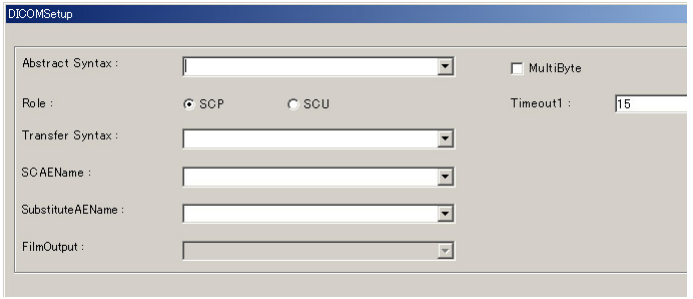
❍ *DRYPIX*
- *Application Entity Name : DRYPIX (default)*
- *Port number : 17238 (default)*
- *Device attribute : PRINT*

❍ *FM-DPL*
- *Application Entity Name : FM-DP L (for 10pix images)*Note*
  *FM-DP LD (for 20pix images)*Note*
- *Port number : 17238 (for both 10pix and 20pix images)*Note*
- *Device attribute : PRINT*

*(*Note) Because these setting values are not the FM-DP L defaults, be sure to set them in accordance with the FM-DP L values.*

2. **Click** New **.**

➔ The “DICOMSetup” window opens.



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■ Service Class, Role, Transfer Syntax

1. Click downward arrow ▼ of the Abstract Syntax : field and select Service Class (e.g.: “Basic Grayscale Print”).

➥ ***REFERENCE***

“Verification” is the Service Class used to verify connection between DICOM equipment units. For verifying connection, “Verification” must be selected.

☞ *For details of connection checkout, see “7. Verifying the Connection to Other Connected Equipment – Verify Connection” under “MU: Maintenance Utility.*

2. Because the AE of the FN-PS551 is the Provider, make sure that ◉ SCP (SCP) is selected for the Role.

3. Click downward arrow ▼ in the Transfer Syntax : field to select Transfer Syntax (e.g.: “ImplicitVRLittleEndian”).

Service Class	Transfer Syntax Supported (Selected)		
	ImplictVR LittleEndian	ExplictVR LittleEndian	JPEG Lossless
Basic Grayscale Print	○	×	×
Verification	○	×	×

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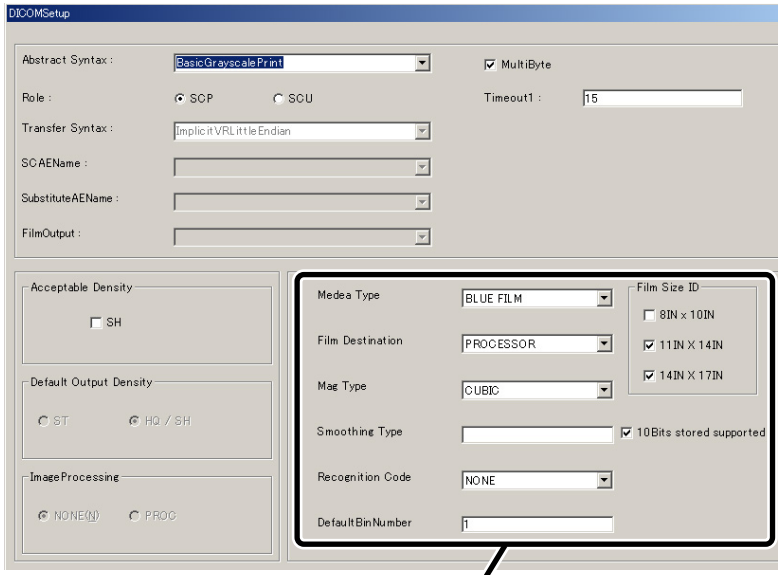
■ Settings for DICOM Print output conditions

1. Make necessary settings for the following DICOM Print output conditions.
Set them as shown in the table below if the other connected equipment is the FN-PS551, DRYPIX or FM-DP L.



DICOM Print output conditions

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- Media Type — BLUE FILM (Default)
- Film Destination — PROCESSOR (Default)
- Mag Type — CUBIC (Default[*2])
- Smoothing Type — Blank (Default)
- Recognition Coed — NONE (Default)
- Default Bin Number — 1 (Default)
- Film Size ID — (Change as needed.)[*1]
- 10 Bits Stored Supported — Use check mark. (Default)

[*1] Set this item in accordance with the film size available on the printer.

[*2] For software version A00, “BILINEAR” is the default.

☞ For details of settings for the DICOM Print output conditions, see “4. DICOM Print Output Conditions” under “Print Output Function” of “FR1: Function-specific Reference”.

■ Other (usage of two-byte characters, settings for data conversion from HQ to standard image, etc.)

1. Check SH (☐ to ☑) of "Acceptable Density" if other connected equipment can receive mammographic images (20pixel/mm) as well.

◆ *NOTE* ◆

To enable transfer of 20pixel/mm images, an Application Entity for output of 20pixel/mm images needs be set up in other connected equipment such as FM-DP L.

2. To handle two-byte characters, check the ☐ MultiByte box (☐ to ☑).

➥ *REFERENCE*

Timeout1 : 15 *and* Timeout2 : 300 *need not be checked. Even if checked, they will be disregarded.*

3. Click OK.

➔ The system returns to the "Application Entity List" window.

4. Click OK.

➔ The system returns to the "Setup Configuration Item" window.

5. Select "Save" from the "Config (F)" menu.

➔ A window opens, prompting you to confirm the setup data to be saved.

6. Click Yes.

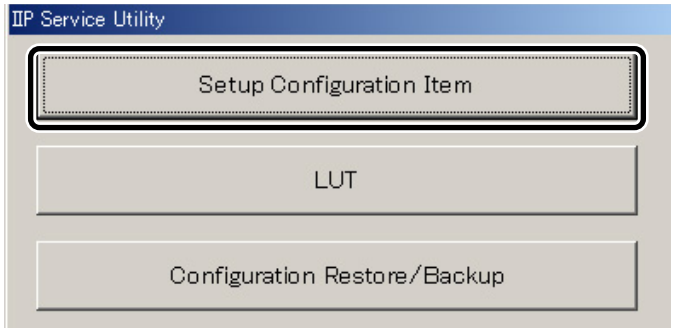
➔ The system saves the setup data.

2.1.6 Registration of Printer That Automatically Outputs Print Films Upon Completion of Checkout – CONNECTING EQUIPMENT

Use this procedure to register a printer that automatically outputs print films upon completion of checkout.

A printer that outputs print films only via the QA operation needs not to be registered here.

1. From the "IIP Service Utility" window, click [Setup Configuration Item].



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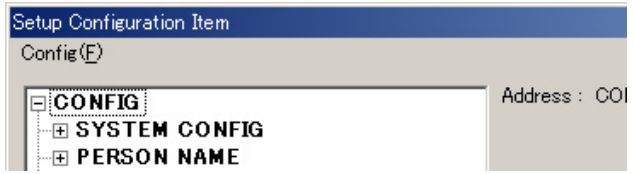
➔ The "Setup Configuration Item" window opens.



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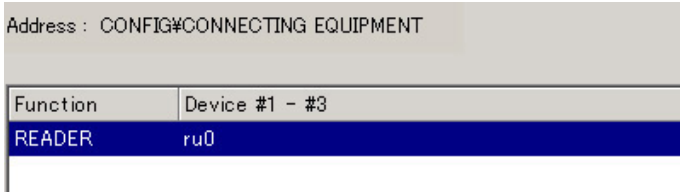
2. Click ⊟ CONNECTING EQUIPMENT.

➔ A list of registered equipment appears in the right-hand area of the window.



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3. Click [New].

➔ The “CONNECTING EQUIPMENT” window opens.

4. **Perform the following setup steps:**

❍ Click the downward arrow mark in the [Function :] field and select the function (PRINT) of the connected device.

❍ Click the downward arrow mark in the [Equipment #1 :] field and select the AE name (e.g.: Printer1) of the FN-PS551.

5. Click [OK].

➔ You are returned to the “Setup Configuration Item” window.

6. **From the “Config (F)” menu, choose “Save”.**

➔ A window opens, prompting you to confirm the setup data to be saved.

7. Click [Yes].

➔ The system saves the setup data.

2.1.7 Film Annotation Character Format Setup

Perform the following film annotation character format setup procedure, for instance, to specify the image information to be printed out onto film, the annotation character format, and the use of an image-frame.

➥ *REFERENCE*

The default film annotation character format for print output is basically the same as for printouts generated by the FCR 5000 Series.

☞ *Film output differences between the CL and the 5000 Series are stated in “2.2 Precautions of the Film Annotation Character Format” under “Print Output Function” in “FR1: Function-specific Reference”.*

1. **From the “Setup Configuration Item” window, click the ⊞ sign within the [⊞ SYSTEM CONFIG] field.**

2. Click [⊟ 4.LOCAL PRINTER].

➔ The LP configuration setup items appear in the right-hand area of the window.

3. **Set the film annotation character format.**

☞ For details on the setup procedure, see “2. Setup Necessary When Editing the Film Annotation Character Format”, under “Print Output Function” in “FR1: Function-specific Reference”.

4. **From the “Config (F)” menu, choose “Save”.**

➔ A window opens, prompting you to confirm the setup data to be saved.

5. Click [Yes].

➔ The system saves the setup data.

2.1.8 Changes in Name Elements

When the DICOM is connected, change patient name elements as necessary.

☞ See “3.7 Setting the Patient Name Elements When the DICOM is Connected” in “MU: Maintenance Utility”.

2.1.9 Setup for Film Sorting Function

Film sorting conditions must be set up for the printer that supports the film sorting function.

☞ “3.8 Setup for DICOM Print Film Sorting” under “MU: Maintenance Utility”. //Being now prepared.//

2.1.10 Service Utility Shutdown

1. **Select “Close” from the “Config(F)” menu.**

   ➔ The system returns to the “IIP Service Utility” window.

2. **Click [Exit Service Utility].**

   ➔ The system returns to the desktop screen.

2.2 Software Setup for Other Connected Equipment

Set up the DICOM Print function as follows so that other connected equipment can receive images coming from the CL.

- FN-PS551

  ☞ See “7. Service Utility” in the Maintenance section of the FN-PS551 Service Manual.

- DRYPIX

  ☞ See “8.1 Network Connection (DICOM)” in “IN: Installation” of the DRYPIX Service Manual.

- FM-DP L

  ☞ ???????

3. Verifying the Connection

This section describes the procedures for printing images onto the printer from the CL for film annotation character format verification purposes.

3.1 Starting the CL-AP

3.2 Verifying the Film Annotation Character Format

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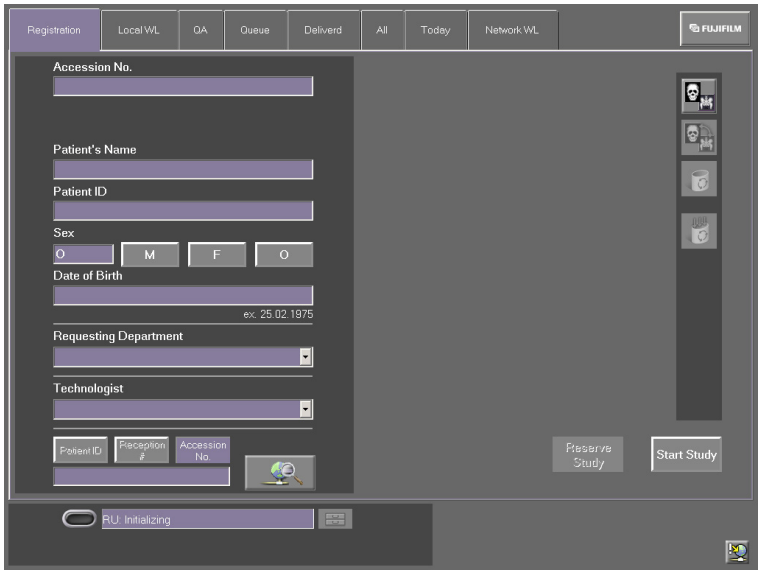
3.1 Starting the CL-AP

1. **From the Start menu, sequentially select “Programs”, “Fuji Film”, and then “FCR”.**

➔ The CL opening window appears on the display.
After about one minute, the CL-AP reception window opens.



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3.2 Verifying the Film Annotation Character Format

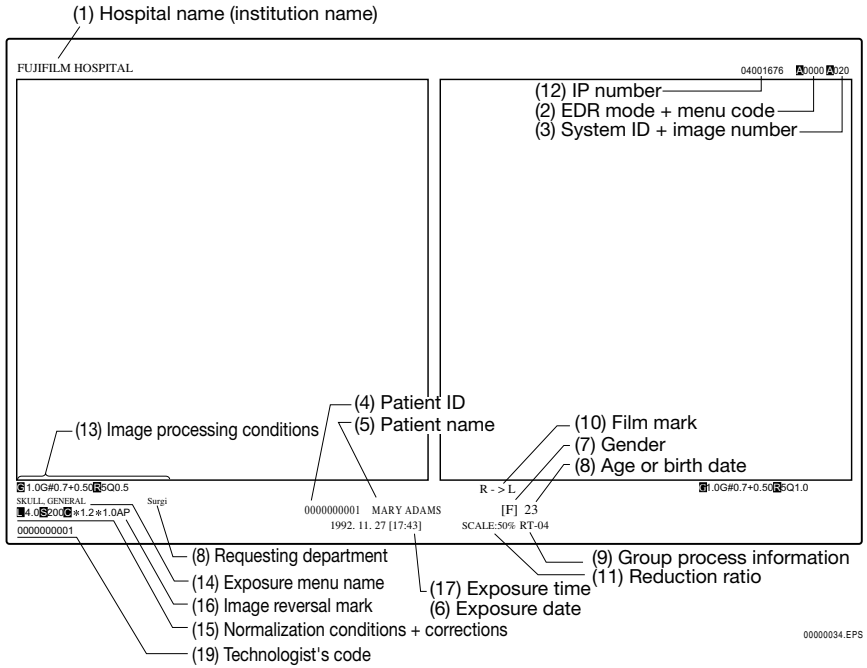
1. **Print out a read image.**
When the FM-DP L is connected, print both 10pix- and 20pix-images.

☞ For details on the print output procedure,
see “FCR XG-1 CR-IR346CL” in the CL Operation Manual.

2. **Check whether the film annotation character format information entered from the CL is properly printed out onto the film. Also, check for blurred, chipped, or otherwise abnormal character printings.**

➥ *REFERENCE*

The example in the figure below represents a printout that would be generated when the default film annotation character format is used (image size: 35 × 35cm (14"× 14"); print format: TWIN). When the default settings are used, character strings (1) through (19) are printed out.



☞ If any abnormality is found, see “Print Output Function” under “FR1: Function-specific Reference”.

4. Backing Up the Setup File

Make a backup of the CL setup file.

For making a backup, have the following item on hand:

• Two DOS/V-formatted FDs.

☞ For details on the backup procedure, see “5. Restoring/Backing Up the Configuration File – Configuration Restore/Backup”, under “MU: Maintenance Utility”.

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CL+FN-PS551 or 5000 Series (FINP: Print Output)

This chapter presents the procedure for printing images using the FINP via the FN-PS551 or 5000 series.

➤ *IMPORTANT*

When using the FINP, the film character format specified will be printed out in accordance with the file set up in the FN-PS551 or 5000 series. Have the film character format be set up on the FN-PS551 or 5000 series.

A film character format set up on the CL will not be enabled.

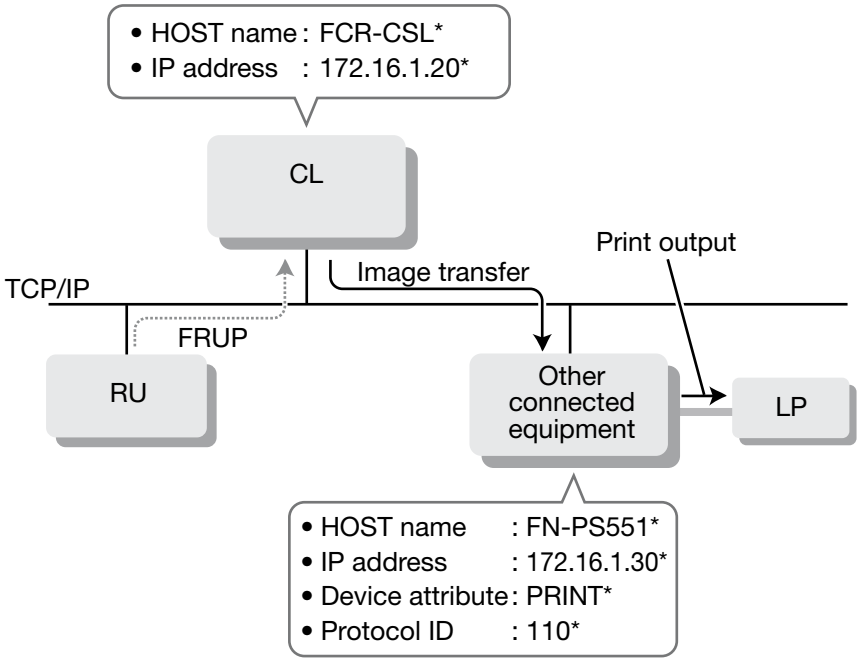
◆ *NOTE* ◆

The "CR-IR346CL" and "FN-PS 551" or "5000 series" are abbreviated hereafter simply "CL" and "other connected equipment", respectively.

■ Prior to setup

- CL requirements
  - The CL main unit must have been set up accordingly.
  - Software version required: A00 or later
  - The FINP image input/output option key (IR346 DMS NET-WORK IN-OUT) is necessary.
- FN-PS551 requirements
  - The FN-PS551 main unit must have been set up accordingly.
  - Software version required: A04 or later.
- 5000 series requirements
  - The 5000 series main unit must have been set up accordingly.

■ Connection/setup example



Items marked with "⋆" constitute setup examples, which need be changed depending on the equipment or network environment.

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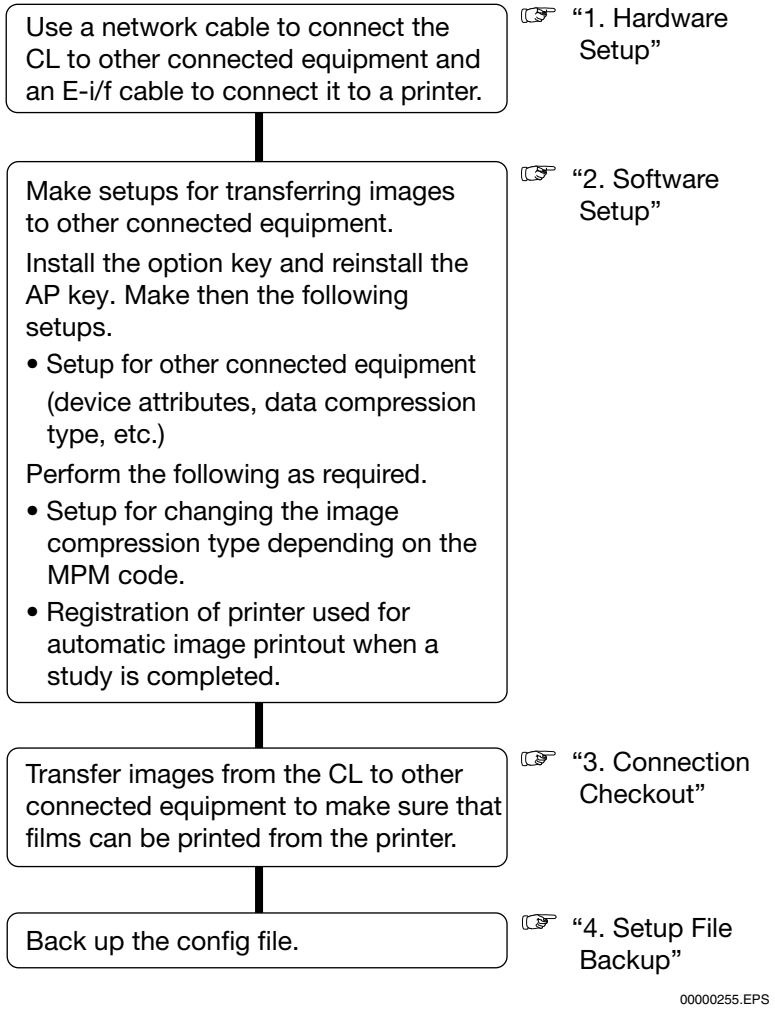
■ Overall operation flow


Use a network cable to connect the CL to other connected equipment and an E-i/f cable to connect it to a printer.
☞ "1. Hardware Setup"
Make setups for transferring images to other connected equipment.
Install the option key and reinstall the AP key. Make then the following setups.
• Setup for other connected equipment (device attributes, data compression type, etc.)
Perform the following as required.
• Setup for changing the image compression type depending on the MPM code.
• Registration of printer used for automatic image printout when a study is completed.
☞ "2. Software Setup"
Transfer images from the CL to other connected equipment to make sure that films can be printed from the printer.
☞ "3. Connection Checkout"
Back up the config file.
☞ "4. Setup File Backup"

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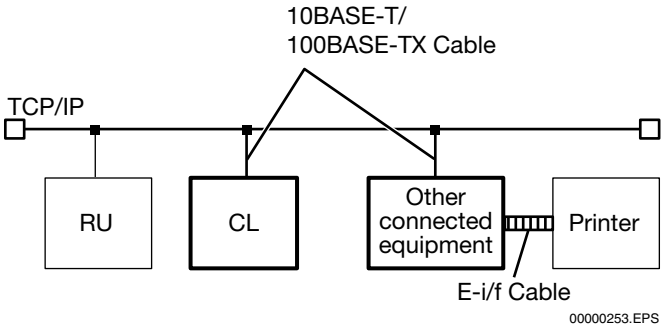
1. Hardware Setup

Connect the CL to other connected equipment via network as illustrated below.

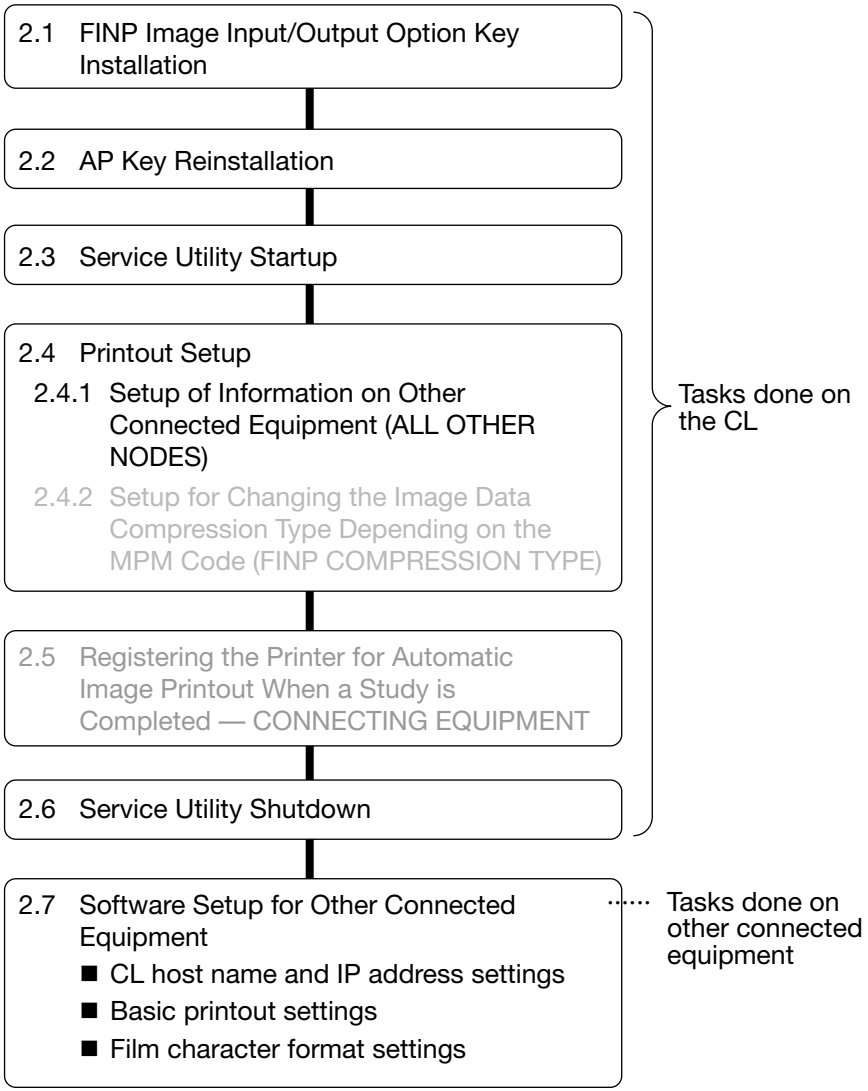


◆ *NOTES* ◆

- *Do not connect the telephone line to the network connectors of the CL and other connected equipment.*
- *The IEC950/UL1950-conformed cable is available for these equipment units (CR-IR346CL, FN-PS-551).*

2. Software Setup

Set up software for the CL and other connected equipment.
Set up the items shown in gray as required. Be sure to set up all other items.


2.1 FINP Image Input/Output Option Key Installation
2.2 AP Key Reinstallation
2.3 Service Utility Startup
2.4 Printout Setup
2.4.1 Setup of Information on Other Connected Equipment (ALL OTHER NODES)
2.4.2 Setup for Changing the Image Data Compression Type Depending on the MPM Code (FINP COMPRESSION TYPE)
2.5 Registering the Printer for Automatic Image Printout When a Study is Completed — CONNECTING EQUIPMENT
2.6 Service Utility Shutdown
2.7 Software Setup for Other Connected Equipment
■ CL host name and IP address settings
■ Basic printout settings
■ Film character format settings
Tasks done on the CL
Tasks done on other connected equipment

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2.1 FINP Image Input/Output Option Key Installation

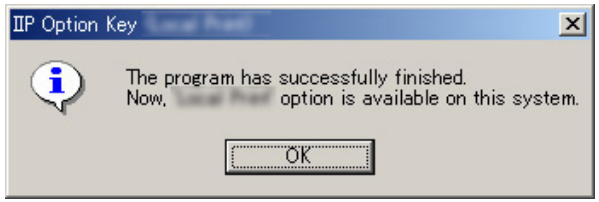
To transfer images to other connected equipment using the FINP, the IR346 DMS NET-WORK IN-OUT option key is needed.

1. **Insert the option key CD into the CD-ROM drive.**

➔ Within several seconds, the installation start window opens.

2. **Click** Continue.

➔ A window opens to indicate the completion of installation.



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3. **Click** OK.

➔ The installation start window opens again.

4. **Click** Continue.

➔ A window opens to indicate the completion of installation.

5. **Click** OK.

➔ The system return to the desktop screen.

6. **Remove the CD from the CD-ROM drive.**

➥ *REFERENCE*

The installation start window opens twice because the two kinds of keys, for image input and output, are stored on the FINP image input/output option key CD.

2.2 AP Key Reinstallation

If the option key is installed, be sure to reinstall the AP key.

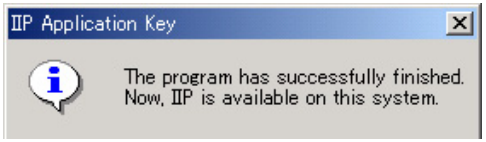
Use the AP key CD (114Y5342002A: Version A00 or later) to reinstall the AP key. The reinstallation procedure is shown below.

1. **Insert the AP key CD into the CD-ROM drive.**

➔ After a while, the installation start window automatically opens.

2. **Click** Continue.

➔ A window opens to indicate the completion of installation.



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3. **Click** OK.

➔ The system returns to the desktop screen.

4. **Remove the CD from the CD-ROM drive.**

2.3 Service Utility Startup

1. **Turn ON the CL power.**

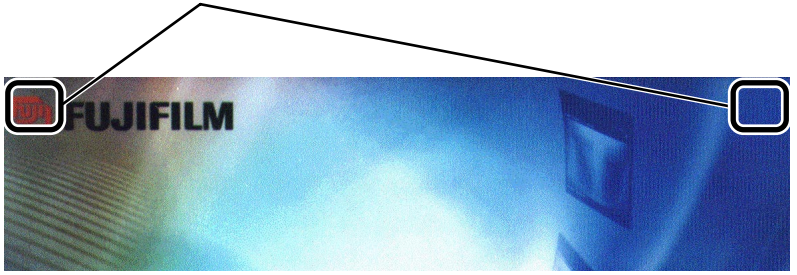
➔ In about one minute after Windows 2000 is started up, the CL-AP launches itself.

➥ *REFERENCE*

If the AP or Windows 2000 is already running, start the Service Utility mode as directed under REFERENCE in step 2. below.

2. **Within a period of 5 seconds after the initial window opens, sequentially click the upper left and upper right corners of the window.**

Click the upper left corner and then the upper right corner.



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➔ The Service Utility mode starts. The “IIP Service Utility” window opens.

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➥ ***REFERENCE***

If you cannot complete step 2. above from the initial window within a 5-second period and allow the AP to start up, perform the following steps to start the Service Utility mode.

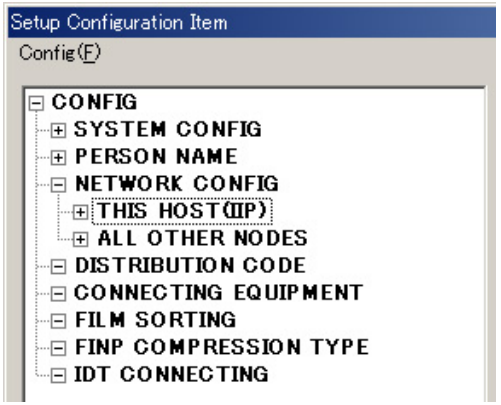
1. To exit the AP, hold down the <Shift> key and select [Shut Down] on the FUJIFILM *menu.*

2. From the “Start” menu, sequentially select “Programs”, “Fuji Film”, and “FCR”.

3. When the initial window opens, click the upper left corner and then the upper right corner within a period of 5 seconds.

3. Click [Setup Configuration Item].

➔ The “Setup Cofiguration Item” window opens.



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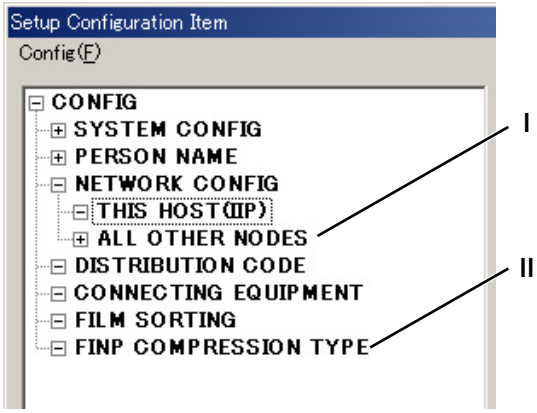
2.4 Printout Setup

Set up the printout function as follows for other connected equipment.

■ Setup overview

Service Utility “Setup Configuration Setup Item” window



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- Setup of information on other connected equipment (I on the window display)
  - Host name and IP address of other connected equipment
  - Selection of protocol used (FINP) by other connected equipment
  - Setup of the protocol ID (FINP100/110) of other connected equipment
  - Setup of attribute of other connected equipment
  - Setups for handling HQ images and image compression type

- Setup for changing the image data compression type depending on the MPM code (II on the window display)

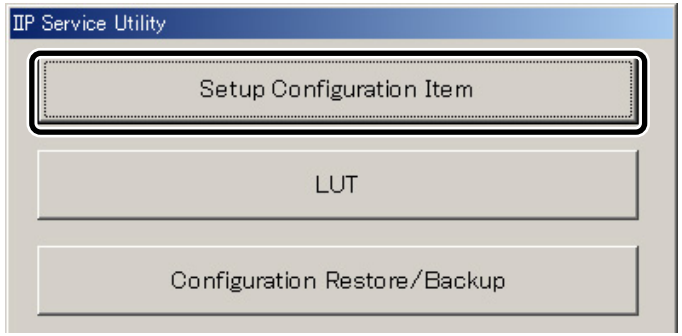
  Perform this setup only when transferring images by changing the data compression type depending on the MPM code.

◆ ***NOTE*** ◆

To enable this setup, the Depend on MPM Code *field must have been activated before setting the image data compression type (ALL OTHER NODES).*

2.4.1 Setup of Information on Other Connected Equipment (ALL OTHER NODES)

1. Click [Setup Configuration Item] of the “IIP Service Utility” window.



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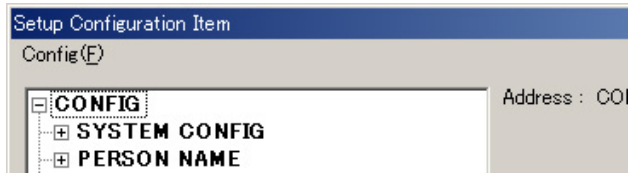
➔ The “Setup Configuration Item” window opens.



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2. Click the ⊞ mark of the ⊞ NETWORK CONFIG field.

3. Select ⊞ ALL OTHER NODES and click NEW.

➔ The “New Node” window opens.

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4. Enter the host name (e.g.: “FN-PS551”) of other connected equipment in Host Name : .

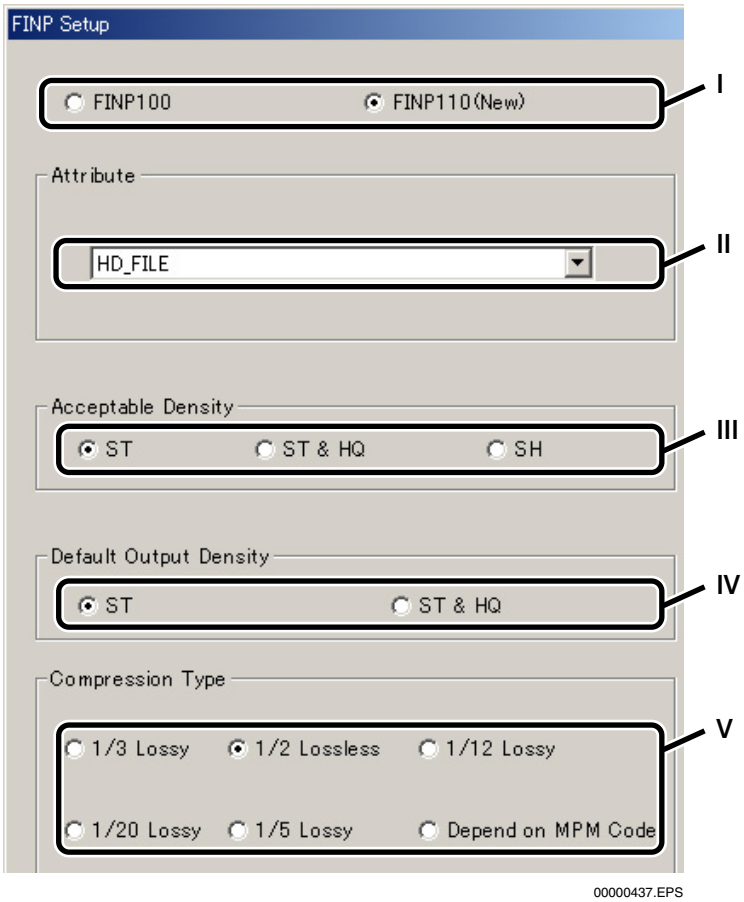
5. Enter the IP address (e.g.: “172.16.1.30”) of other connected equipment in IP Address : .

6. Make sure that FINP is selected in the Add Node column.

7. Click OK.

➔ The “FINP Setup” window opens.

8. **Set information of other connected equipment as follows.**



I. Select the protocol ID (FINP110(New)) that other connected equipment supports.

II. Select the device attribute (PRINT) for other connected equipment.

➥ *REFERENCE*

• Select "PRINT" for the 5000 series and FN-PS551.
• Select "HD_FILE" for the HI-C/QA-WS system.
• Select "OD_FILE" for the ODF system.
• Select "OTHER" for the CL.

III. Select ST & HQ if other connected equipment can receive HQ images.
Select SH if it can receive mammographic images as well.

IV. Select ST & HQ when transferring HQ images to other connected equipment.

V. Select the image data compression type used for transferring images to other connected equipment.

Select Depend on MPM Code when transferring images by changing the data compression type depending on the MPM code.

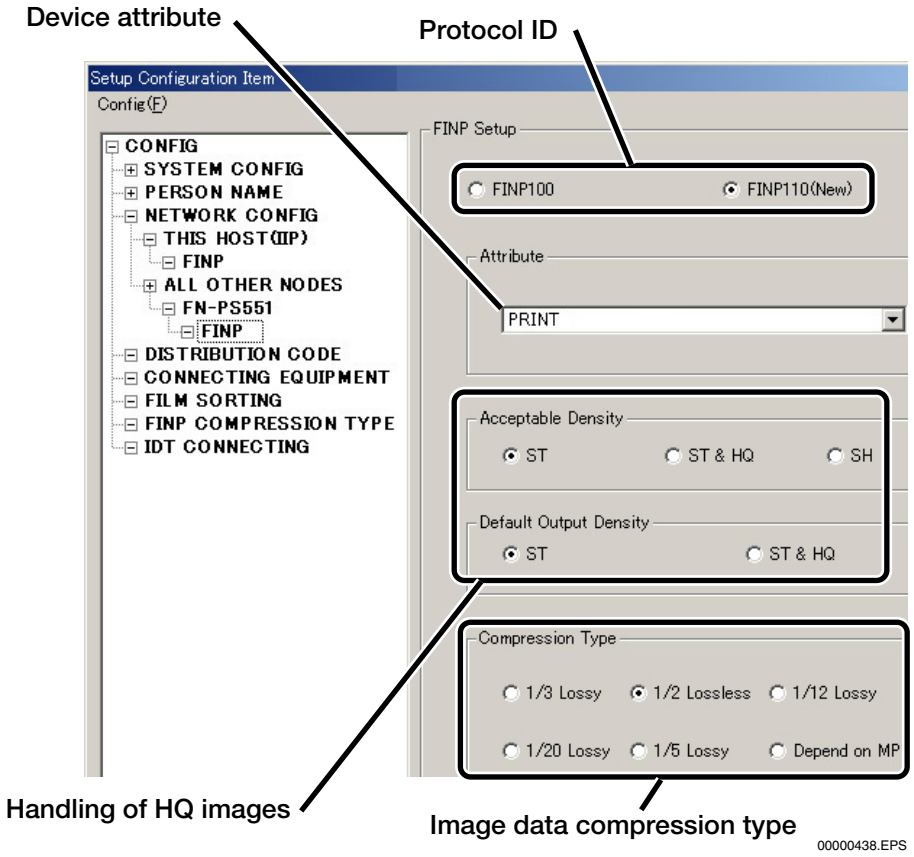
☞ See "2.4.2 Setup for Changing the Image Data Compression Type Depending on the MPM Code (FINP COMPRESSION TYPE)".

9. Click OK.

➔ The system returns to the “Setup Configuration Item” window.

➥ *REFERENCE*

- *Items just have been set up will appear on the right-side area of the “Setup Configuration Item” window. A displayed item can be changed. Whenever it is changed, never fail to click* Apply.
- *If the* Delete *key is pressed, currently selected items are deleted.*



10. Select “Save” from the “Config (F)” menu.

➔ A window opens, prompting you to confirm the setup data to be saved.

11. Click Yes.

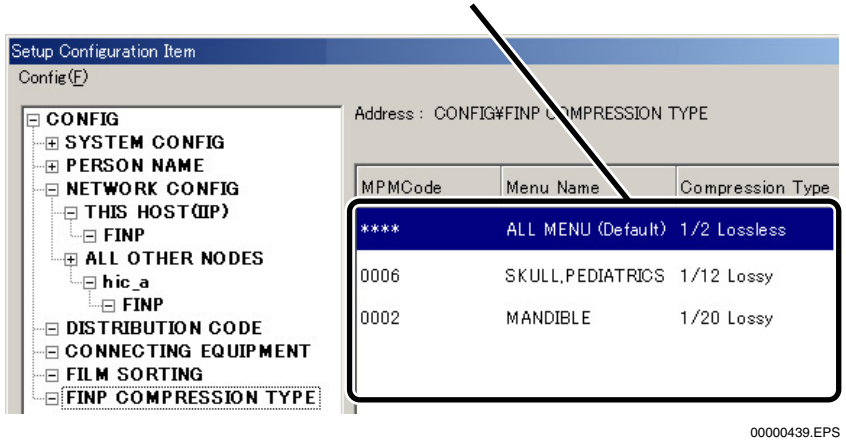
➔ The system saves the setup data.

2.4.2 Setup for Changing the Image Data Compression Type Depending on the MPM Code (FINP COMPRESSION TYPE)

Perform the following settings only when ◉ Depend on MPM Code is selected for the image data compression type in "ALL OTHER NODES".

1. Select ⊟ FINP COMPRESSION TYPE of the "**Setup Configuration Item**" window.

➔ A list showing the data compression type for each MPM code will be displayed on the right-side area of the window.

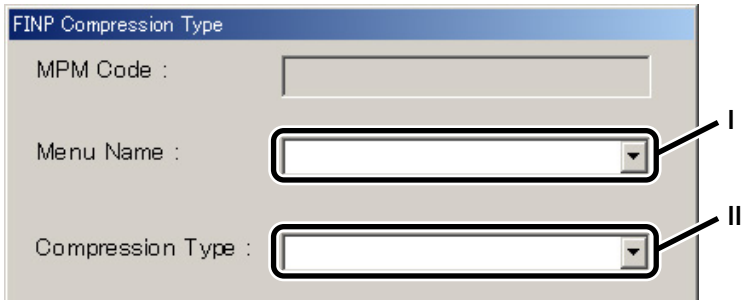


00000439.EPS

2. Click NEW.

➔ The "FINP Compression Type" window opens.

3. Set I. and II. on the display as follows.



00000440.EPS

I. Select the exposure menu name.

➥ ***REFERENCE***

The MPM code that is for the exposure menu selected will be displayed in the "MPM Code" column. Using the User Utility, the user thus can view which MPM code is for the exposure menu selected.

II. Select the image data compression type.

4. Click OK.

➔ The system returns to the "Setup Configuration Item" window. The MPM code set as above and the image data compression type for the code will appear on the right side of this window.

5. To set image data compression types for other MPM codes, repeat steps 2. to 4.

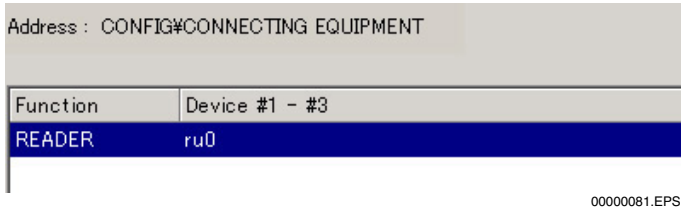
2.5 Registering the Printer for Automatic Image Printout When a Study is Completed – CONNECTING EQUIPMENT

Described herein is the procedure used for registering the printer for automatic image printout when a study is completed.

For a printer that outputs prints only through the QA operation, no registration is required at this step.

1. Click ⊟ CONNECTING EQUIPMENT on the "Setup Configuration Item" window.

➔ A list of registered equipment appears in the right-hand area of the window.



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2. Click New.

➔ The "CONNECTING EQUIPMENT" window opens.

3. Perform the following setup steps:

❍ Click the downward arrow mark ▼ in the Function : field and select the function (PRINT) of the connected device.

❍ Click the downward arrow mark ▼ in the Equipment #1 : field and select the host name (e.g.: "FN-PS551") of other connected equipment.

4. Click OK.

➔ You are returned to the "Setup Configuration Item" window.

5. From the "Config (F)" menu, choose "Save".

➔ A window opens, prompting you to confirm the setup data to be saved.

6. Click Yes.

➔ The system saves the setup data.

2.6 Service Utility Shutdown

1. **Select “Close” from the “Config” menu of the “Setup Configuration Item” window.**

   ➔ The system return to the “IIP Service Utility” window.

2. **Click [Exit Service Utility].**

   ➔ The system return to the desktop screen.

2.7 Software Setup for Other Connected Equipment

Make the following settings on other connected equipment.

- FN-PS 551
  - CL host name and IP address settings
  - Basic printout settings
  - Film character format settings

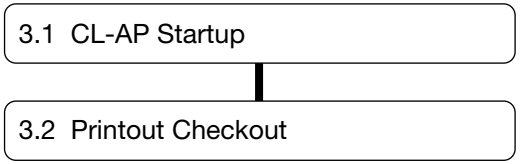
☞ See “7. Service Utility” in the Maintenance section of the FN-PS551 Service Manual.

- 5000 series
  - EQUIPMENT (EQUIP file) settings
  - HOST ADDRESS (HOST file) settings
  - Film annotation character format (PRINT file) settings

☞ See “MU: Maintenance Utility” of the 5000 series Service Manuals.

3. Connection Checkout

After the CL-AP has been started up, make sure that images can be transferred from the CL to the FN-PS551.

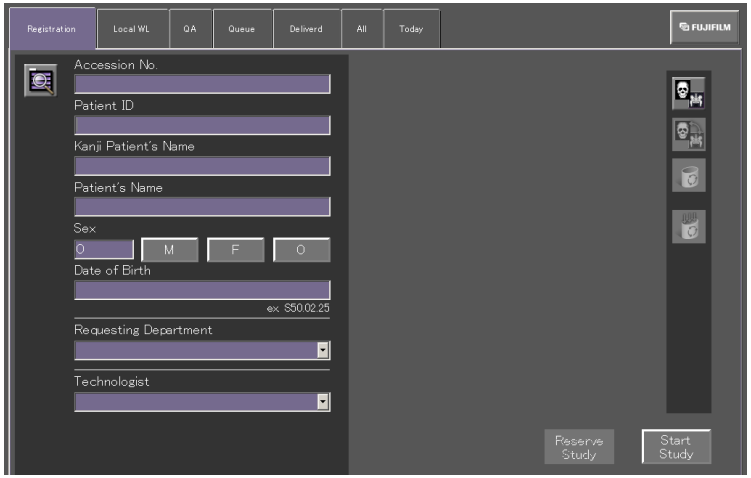


00000083.EPS

3.1 CL-AP Startup

1. **From the Start menu, sequentially select “Programs”, “Fuji Film” and “FCR”.**

➔ The CL opening window opens.
In about one minute, the CL-AP reception window opens.



OE000017.EPS

3.2 Printout Checkout

Transfer images from the CL to other connected equipment to make sure that films can be printed from the printer.

1. **Print out a read image.**

☞ For details on the print output procedure, see “FCR XG-1 CR-IR346CL” in the CL Operation Manual.

2. **Make sure that the output queue of other connected equipment displays images transferred from the CL.**

3. **When prints are output to the printer, make sure that those printouts are as per the film character format that has been set up on other connected equipment.**

Also, check for blurred, chipped, or otherwise abnormal character printings.

4. Backing Up the Setup File

Make a backup of the CL setup file.

For making a backup, have the following item on hand:

- Two DOS/V-formatted FDs.

☞ For details on the backup procedure, see “5. Restoring/Backing Up the Configuration File – Configuration Restore/Backup”, under “MU: Maintenance Utility”.

CL+RIS/IDC4 (ID Online)

... not supported.

CL+RIS (DICOM MWM/DICOM PPS)

This chapter describes the DICOM MWM and DICOM PPS setup procedures.

❍ MWM

Abbreviation of the “Modality Worklist Management” function, which enables the CL to receive via networks patient information or exposure menu registered to the RIS and view it on the study reception window.

The CL offers two kinds of MWM: MWM(ORDER) that receives both patient information and exposure menu and MWM (ID) that receives only patient information.

❍ PPS

Abbreviation of the “Performed Procedure Step” function, which is responsible for sending patient's actual measurement values determined on the CL back to the RIS.

Basically, the PPS function is used combined with MWM. Note however that the RIS does not support the PPS function depending on the model. For this reason, the CL offers the MWM and PPS functions individually.

◆ *NOTE* ◆

The “CR-IR346CL” is abbreviated hereafter simply “CL”.

■ Prior to setup

● CL requirements

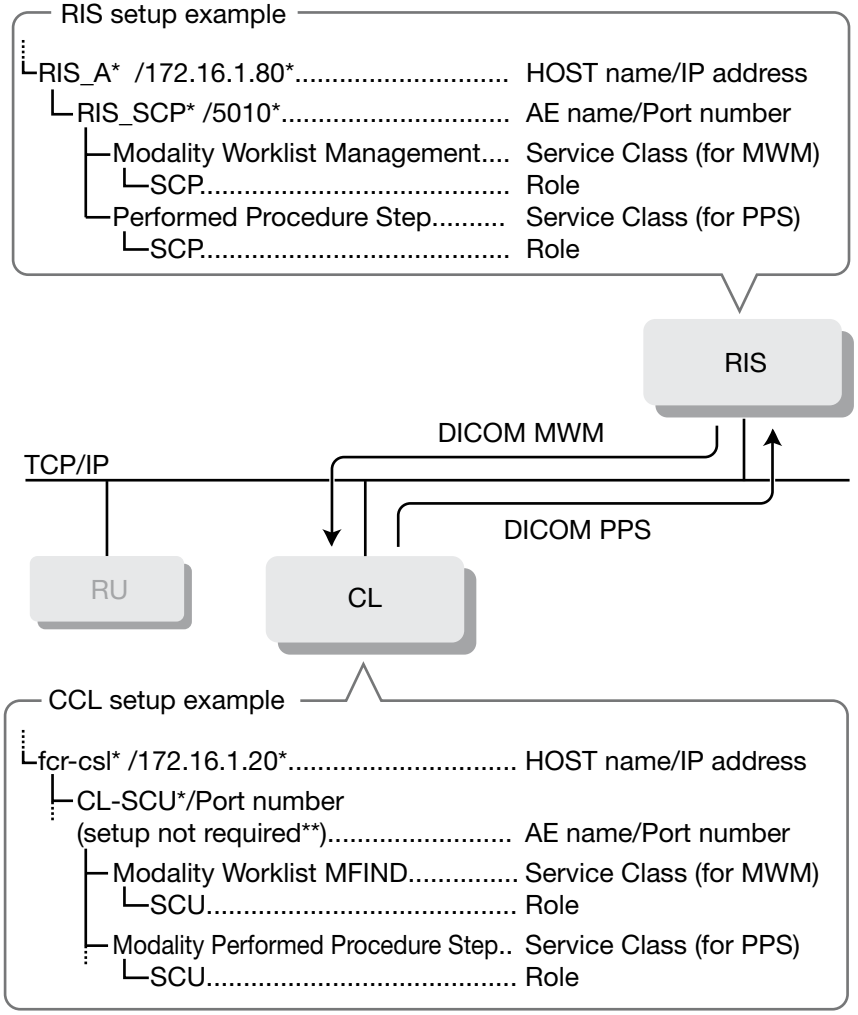
- The CL main unit must have been set up accordingly.
- Software version required: A02 or later.
- The following option keys are needed.

Key Name	Functions Supported
a. CL DICOM ORDER MWM key*	Modality Worklist Management (patient information and exposure menu)
b. CL DICOM ID MWM key*	Modality Worklist Management (only patient information)
c. CL DICOM PPS key	Performed Procedure Step

* Variation

■ Connection/setup examples

The following connection/setup examples are used in this chapter to describe the setup procedure.



* Setup examples that need be changed depending on the equipment or network environment.

** Port number needs not be set up for the Service Class when the Role is SCU.

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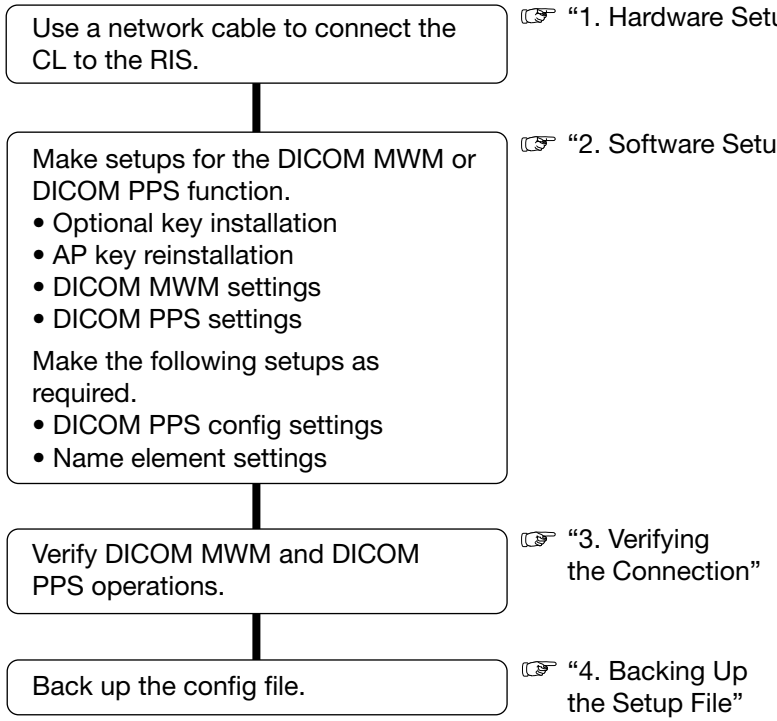
■ Overall operation flow


Use a network cable to connect the CL to the RIS.
☞ "1. Hardware Setup"
Make setups for the DICOM MWM or DICOM PPS function.
• Optional key installation
• AP key reinstallation
• DICOM MWM settings
• DICOM PPS settings
Make the following setups as required.
• DICOM PPS config settings
• Name element settings
☞ "2. Software Setup"
Verify DICOM MWM and DICOM PPS operations.
☞ "3. Verifying the Connection"
Back up the config file.
☞ "4. Backing Up the Setup File"
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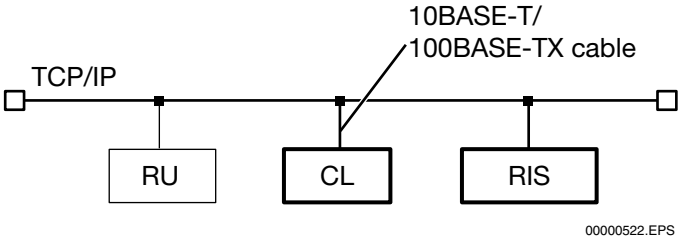
1. Hardware Setup

Connect the CL to the RIS via networks as illustrated below.

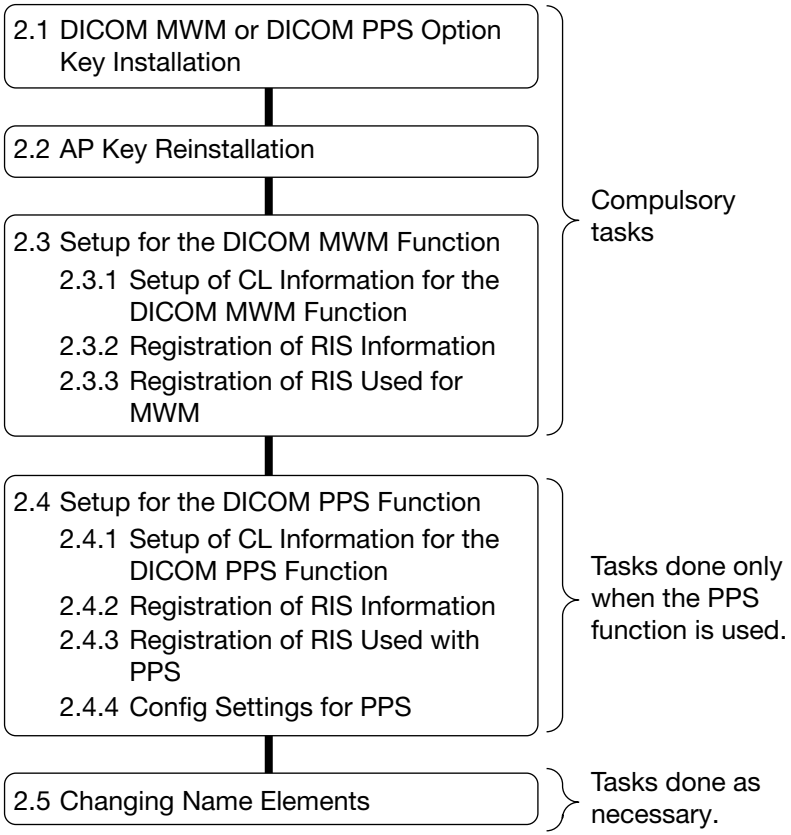


◆ *NOTES* ◆

- *Do not connect the telephone line to the CL network connectors.*
- *The IEC950/UL 1950-conformed cable is available for the CL.*

2. Software Setup

Set up software for the CL as follows.


2.1 DICOM MWM or DICOM PPS Option Key Installation
2.2 AP Key Reinstallation
2.3 Setup for the DICOM MWM Function
2.3.1 Setup of CL Information for the DICOM MWM Function
2.3.2 Registration of RIS Information
2.3.3 Registration of RIS Used for MWM
Compulsory tasks
2.4 Setup for the DICOM PPS Function
2.4.1 Setup of CL Information for the DICOM PPS Function
2.4.2 Registration of RIS Information
2.4.3 Registration of RIS Used with PPS
2.4.4 Config Settings for PPS
Tasks done only when the PPS function is used.
2.5 Changing Name Elements
Tasks done as necessary.

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2.1 DICOM MWM or DICOM PPS Option Key Installation

◆ *NOTE* ◆

Install either MWM (ORDER) or MWM (ID) option key.

1. **Insert the DICOM MWM option key CD into the CD-ROM drive.**
   ➔ Within several seconds, the installation start window opens.
2. **Click** Continue **.**
   ➔ A window opens to indicate the completion of installation.
3. **Click** OK **.**
   ➔ The system returns to the desktop screen.
4. **Remove the CD from the CD-ROM dive.**
5. **When using the DICOM PPS function, insert the optional DICOM PPS key CD to install it following the procedure described in steps 2. to 4. above.**

2.2 AP Key Reinstallation

If an option key is installed, be sure to reinstall the AP key.

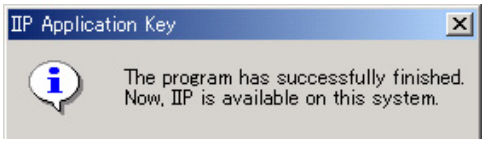
Described below is the procedure to be followed to reinstall the AP key using the AP key CD (114Y5342002A: Version A00 or later).

1. **Insert the AP key CD into the CD-ROM drive.**

➔ After a while, the installation start window automatically opens.

2. **Click** Continue.

➔ A window opens to indicate the completion of installation.



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3. **Click** OK.

➔ The system returns to the desktop screen.

4. **Remove the CD from the CD-ROM drive.**

2.3 Setup for the DICOM MWM Function

Set up CL and RIS information for the DICOM MWM function.

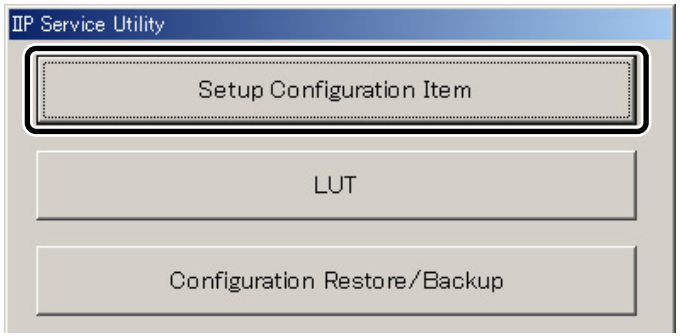
2.3.1 Setup of CL Information for the DICOM MWM Function

The items listed below must be set up following the procedure described herein using “NETWORK CONFIG” and “THIS HOST (IIP)” of Service Utility mode.

- CL’s AE name (Application Entity Name)
- CL’s device attribute (OTHER)
- Service Class and Role
- Other (timeout setting)

1. **Start Service Utility mode and click [Setup Configuration Item] window.**

☞ For how to start Service Utility mode, see “1. Starting and Quitting Service Utility” under “MU: Maintenance Utility”.



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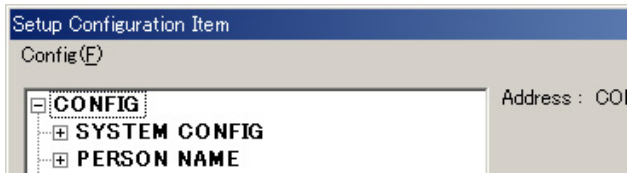
➔ The “Setup Configuration Item” window opens.



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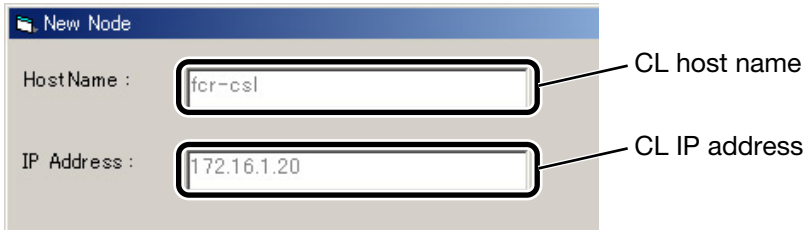
2. Click the ⊞ mark of the ⊞ NETWORK CONFIG field.

3. Select ⊟ THIS HOST(IP) and click New.

➔ The “New Node” window opens.

4. Make sure that the CL host name and IP address are displayed.



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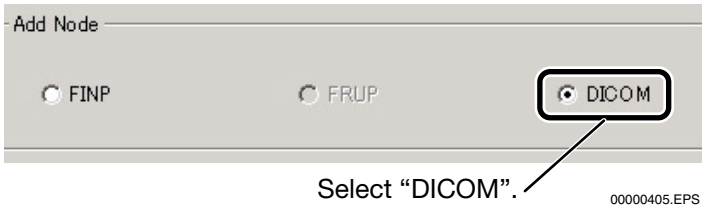
◆ ***NOTE*** ◆

The IP address will not be displayed properly unless the CL is connected to a network.

5. Select “DICOM” and click OK.



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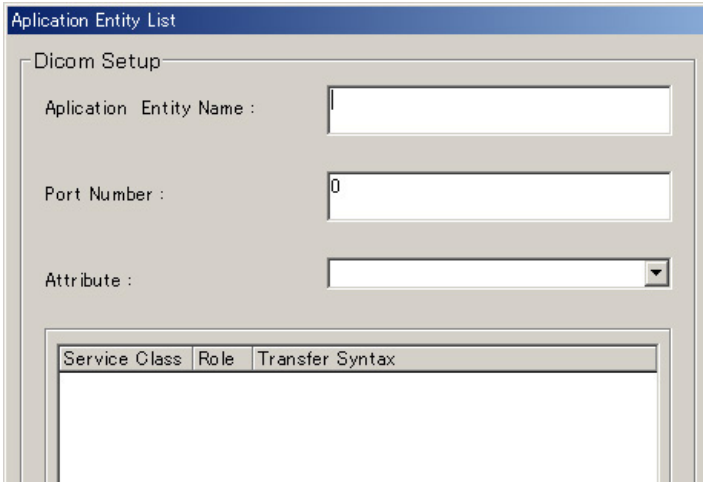
➔ The “Application Entity List” window opens.



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6. Make the following settings.

❍ Enter the AE name (e.g. CL-SCU) that is the SCU for the CL in the Aplication Entity Name : field.

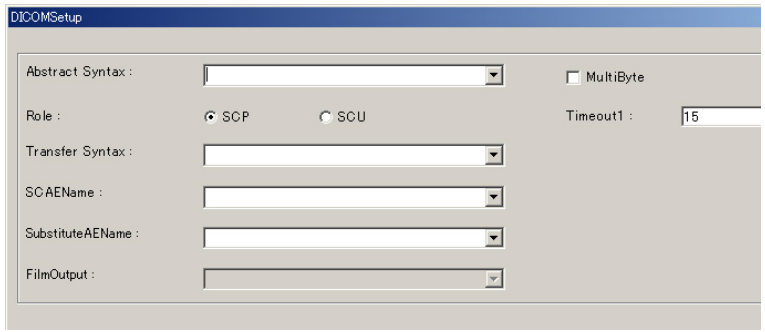
❍ Click downward arrow in the Attribute : field to select device attribute (OTHER).

◆ ***NOTES*** ◆

- *To set the SCU AE on the CL, select “OTHER” for the device attribute for the time being.*
- *There is no need to set the Port number in the* Port Number : 0 *(Port number) field. When selecting SCU as the Role, the Port number will be disregarded even if it is set.*

7. Click New.

➔ The “DICOMSetup” window opens.



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8. Click downward arrow in the Abstract Syntax : field to select Service Class (Modality Worklist MFIND).

➥ REFERENCE

“Verification” is the Service Class used to verify connection between DICOM equipment units. For verifying connection, “Verification” must have been set.

☞ *For details of verification of connection, see “7. Verifying the Connection to Other Connected Equipment - Verify Connection” under “MU: Maintenance Utility”.*

9. To set up the AE that is the User, select SCU (SCU) for the Role.

10. Set the DICOM inter-message timeout value Timeout1 : 15 as necessary.

➥ REFERENCE

You need not to check MultiByte.

Even if checked, it will be disregarded if the Role set in step 9, above is the SCU.

11. Click OK.

➔ The system return to the “Application Entity List” window.

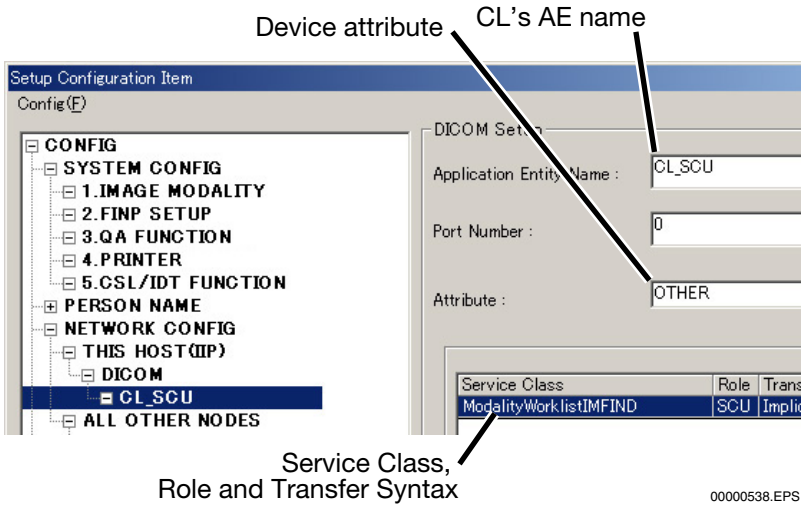
12. Click OK

➔ The system returns to the “Setup Configuration” window.

➥ REFERENCE

- *Items just have been set will appear on the right-side area of the “Setup Configuration Item” window. A displayed item can be changed. Whenever it is changed, never fail to click*

Apply.



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- *If the Delete key is clicked, currently selected items will be deleted.*

2.3.2 Registration of RIS Information

The items listed below must be registered following the procedure described herein using “NETWORK CONFIG” and “ALL OTHER NODES” of Service Utility mode.

- RIS host name and IP address
- RIS AE name (Application Entity Name) and Port number
- RIS device attribute (OTHER)
- Service Class and Role
- Other (usage of two-byte characters, etc.)

1. Select ⊞ ALL OTHER NODES of the “Setup Configuration Item” window and click New.

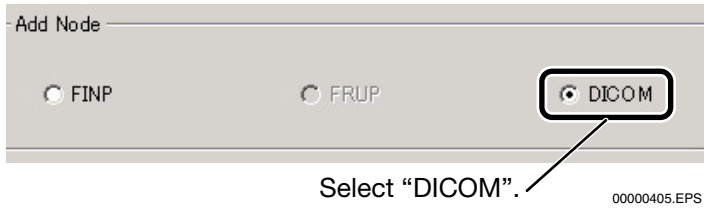
➔ The “New Node” window opens.

2. Makes the following settings.

❍ Enter the Host name (e.g. RIS_A) in the Host Name : field.

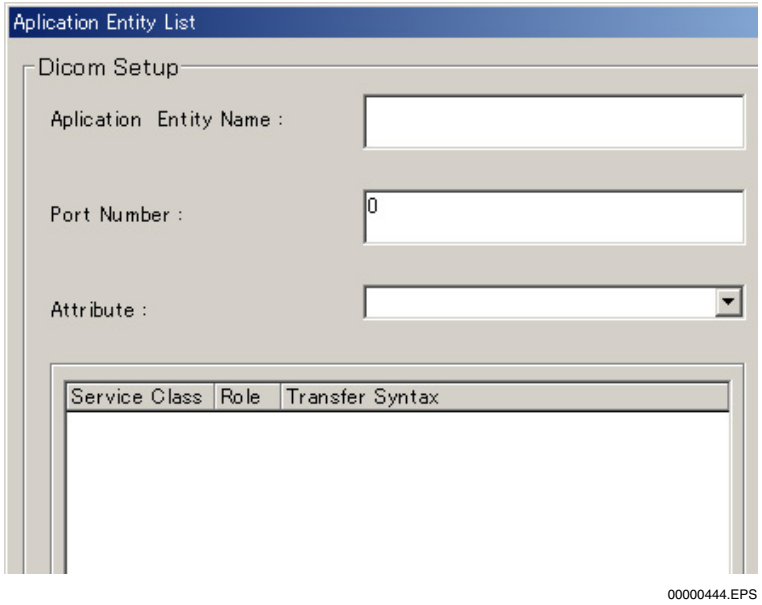
❍ Enter the IP address (e.g. 172.16.1.80) in the IP Address : field.

❍ Select “DICOM”.



3. Click OK.

➔ The “Application Entity List” window opens for setup of RIS information.



4. Make the following settings.

❍ Enter the RIS AE name (e.g. RIS_SCP) in the Aplication Entity Name : field.

◆ NOTES ◆

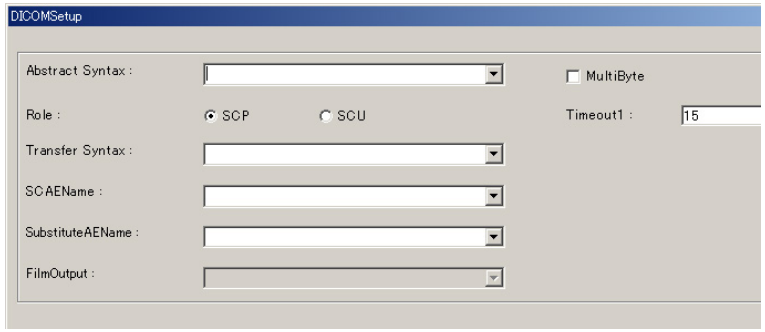
• Never fail to enter the SCP AE name.
• Be sure to enter the upper- or lower-case characters correctly.

❍ Enter the RIS Port number (e.g. 5010) in the Port Number : 0 filed.

❍ Click downward arrow in the Attribute : field to select RIS device attribute (OTHER).

5. Click New.

➔ The "DICOMSetup" window opens.



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6. Click downward arrow in the Abstract Syntax : field to select Service Class (Modality Worklist MFIND).

7. Because the RIS AE is the Provider, make sure that SCP (SCP) is selected for the Role.

8. To handle two-byte characters, check the MultiByte box (☐ ➔ ☑).

➥ ***REFERENCE***

Timeout1 : 15 *needs not be set. Even if set, it will be disregarded.*

9. Click OK.

➔ The system returns to the "Application Entity List" window.

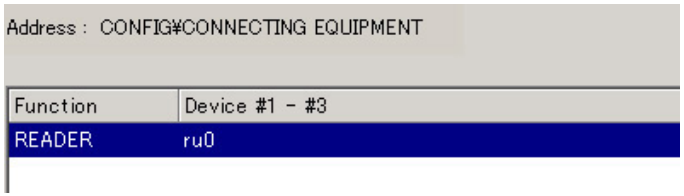
10. Click OK.

➔ The system returns to the "Setup Configuration Item" window.

2.3.3 Registration of RIS Used for MWM

1. Click ⊟ CONNECTING EQUIPMENT of the "Setup Configuration Item" window.

➔ A list of connecting equipment units appears on the right-side area of the window.



00000081.EPS

2. Click New.

➔ The "Connecting Equipment" window opens.

3. Make the following settings.

❍ Click downward arrow in the Function : field to select function (MWM) of the connecting equipment.

❍ Click downward arrow in the Equipment #1 : field to select AE name (e.g. RIS_SCP).

4. Click OK.

➔ The system returns to the "Setup Configuration Item" window.

5. Use the "Config (F)" menu to save the setup data.

2.4 Setup for the DICOM PPS Function

Set up CL and RIS information for the DICOM PPS function .

◆ NOTE ◆

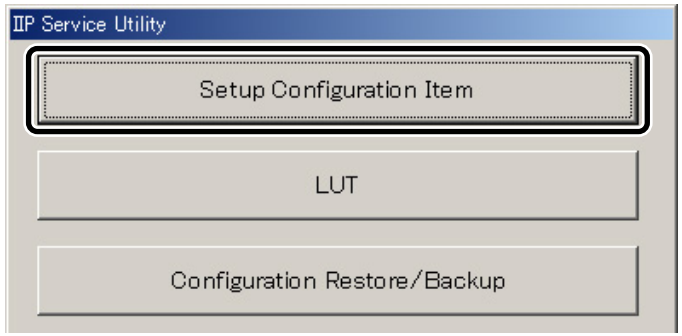
CL and RIS information needs not be set for the DICOM PPS function if the optional DICOM PPS key has not been installed.

2.4.1 Setup of CL Information for the DICOM PPS Function

Following are the items to be set according to the procedure described herein. Use Service Utility “NETWORK CONFIG” — “THIS HOST (IIP)” for setup purposes.

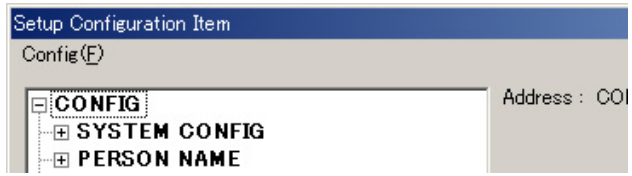
- CL’s AE name and device attribute [Already set in 2.3]
- Service Class and Role
- Other (timeout setting)

1. **Click [Setup Configuration Item] of the “IIP Service Utility” window.**



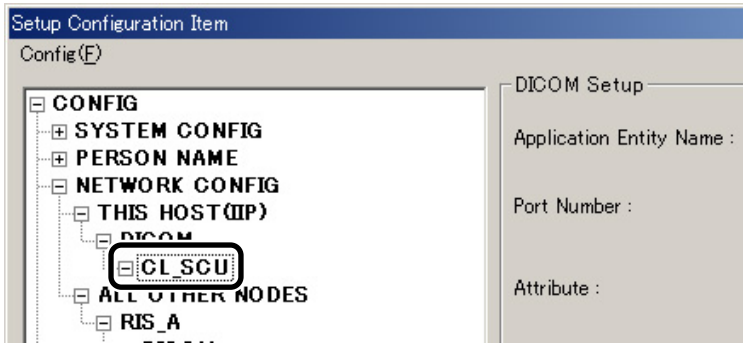
00000131.EPS

➔ The “Setup Configuration Item” window opens.



00000404.EPS

2. **Select NETWORK CONFIG — THIS HOST(IIP) — DICOM — CL_SCU (CL’s AE name).**

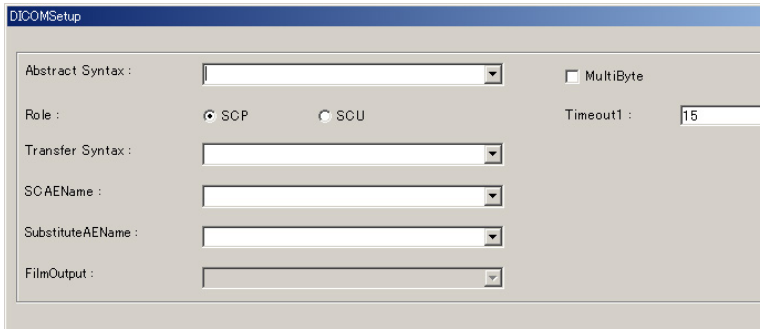


00000539.EPS

➔ The right-hand side of the window will change to the “DICOMSetup” window.

3. **Click** New **.**

➔ The “DICOMSetup” window opens.



00000533.EPS

4. Click downward arrow in the Abstract Syntax : field to select Service Class (Modality Performed Procedure Step).

➥ ***REFERENCE***

"Verification" is the Service Class used to verify connection between DICOM equipment units. For verifying connection, "Verification" must have been set.

☞ *For details of verification of connection, see "7. Verifying the Connection to Other Connected Equipment — Verify Connection" under "MU: Maintenance Utility".*

5. To set up the AE that is the User, select SCU (SCU) for the Role.

➥ ***REFERENCE***

When setting up "SCU", items in the "DICOMSetup" window that need not be set will be hidden.

6. Set the DICOM inter-message timeout value (Timeout1 : 15) as necessary.

➥ ***REFERENCE***

You need not to check MultiByte *.*
Even if checked, it will be disregarded if the Role set in step 5, above is the SCU.

7. Click OK .

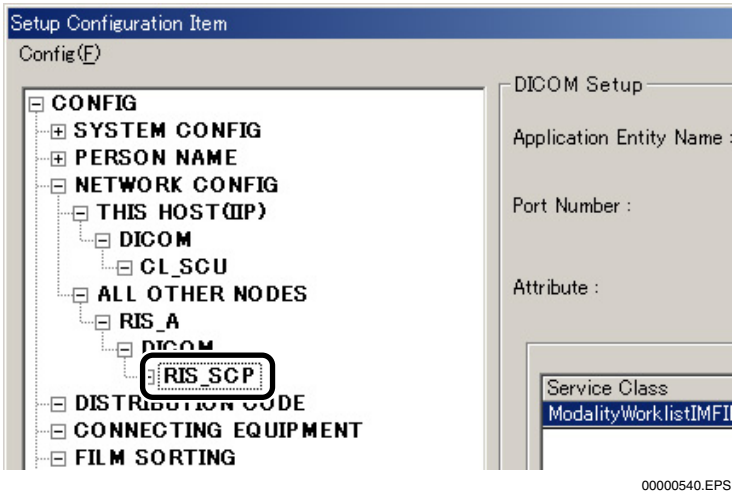
➔ You are returned to the "Setup Configuration Item" window.

2.4.2 Registration of RIS Information

Following are the items to be set according to the procedure described herein. Use Service Utility "NETWORK CONFIG" — "ALL OTHER NODES" for setup purposes.

- RIS host name and IP address [Already set in 2.3]
- RIS AE name, port number and device attribute [Already set in 2.3]
- Service Class and Role
- Other (usage of two-byte characters)

1. Select ⊞ NETWORK CONFIG — ⊞ ALL OTHER NODES — ⊟ RIS_A (RIS host name) — ⊟ DICOM — ⊟ RIS_SCP (RIS AE name) in the "Setup Configuration Item" window.

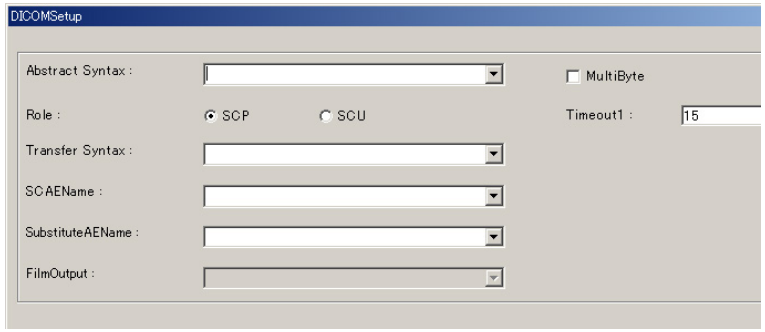


00000540.EPS

➔ The right-hand side of the window will change to the "DICOMSetup" window.

2. Click New.

➔ The “DICOMSetup” window opens.



00000533.EPS

3. Click downward arrow in the Abstract Syntax : field to select Service Class (Modality Performed Procedure Step).

4. Make sure that SCP (SCP) has been selected for the Role because the RIS AE is the Provider.

5. To handle two-byte characters, check MultiByte.

➥ ***REFERENCE***

You need not to set Timeout1 : 15 .
Even if set, it will be disregarded.

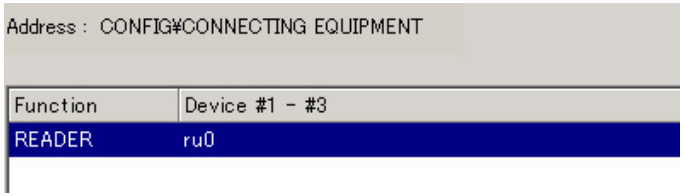
6. Click OK.

➔ You are returned to the “Setup Configuration Item” window.

2.4.3 Registration of RIS Used with PPS

1. Click CONNECTING EQUIPMENT on the “Setup Configuration Item” window.

➔ A list of registered equipment appears in the right-side area of the window.



00000081.EPS

2. Click New.

➔ The “Connection Equipment” window opens.

3. Perform the following setup steps.

❍ Click downward arrow in the Function : field and select the function (PPS) of the connected device.

❍ Click downward arrow in the Equipment #1 : field and select the AE name (e.g.: RIS_SCP).

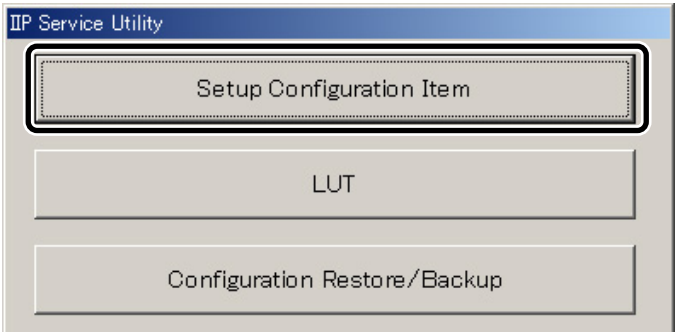
4. Click OK.

➔ You are returned to the “Setup Configuration Item” window.

5. Use the “Config (F)” menu to save the setup data.

2.4.4 Config Settings for PPS

1. Click [Setup Configuration Item] of the “IIP Service Utility” window.



00000159.EPS

➔ The “Setup Configuration Item” window opens.

2. Select ⊟ SYSTEM CONFIG — ⊟ 1.IMAGE MODALITY on the “Setup Configuration Item” window.

➔ CL system information setup items will appear.

3. Perform the following setup steps.

❍ 16 SOP Class UID for PPS When No FILE Attribute Output

▼ SUPPLEMENT ▼

An SOP Class UID that is sent back to PPS if no destination for output of OD_FILE attribute has been registered to the CL.

❍ 17 Protocol Name for PPS

▼ SUPPLEMENT ▼

A value to be set for the PPS Protocol Name.
• 0. Function (default) : Function codes such as RT, TS, ES, etc.
• 1. ANK : Exposure menu

❍ 18 Display Performed Procedure on Worklist Tab

▼ SUPPLEMENT ▼

A setup whether or not to display an already performed study in the CL worklist. For a study already performed, specifying NO will hide it even if its related information is sent form MWM.

4. After settings have actually been changed, use the “Config (F)” menu to save the setup data.

2.5 Changing Name Elements

☞ See “3.7 Setting Name Elements When DICOM is Connected” under “MU: Maintenance Utility”.

2.6 Setup for Exposure Menu/Study Menu Mapping

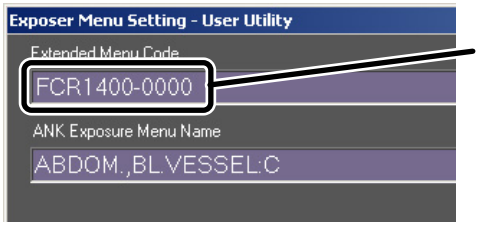
■ Tag mapping

When transmitting the order information to the CL for performing an MWM, it is necessary to coordinate the exposure menu and study menu tag numbers for the RIS and CL.

To do this, you must complete the following steps:

❍ Confirm the DICOM tag numbers including the RIS’s ordering information.
❍ Coordinate the extended menu codes for the RIS’s ordering information and CL’s exposure and study menus (rewrite them with the CL’s user utility).

The following example shows how to rewrite the extended menu code for an exposure menu.


Exposer Menu Setting - User Utility
Extended Menu Code
FCR1400-0000
ANK Exposure Menu Name
ABDOM.,BL.VESSEL:C
Bring this code into coordination with the RIS’s ordering information.

OE000039.EPS

■ CL configuration setup

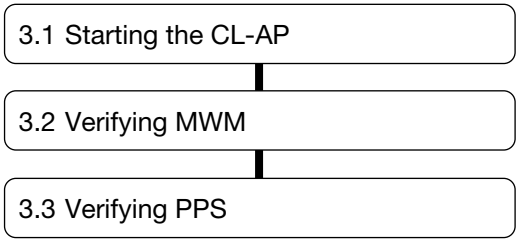
Set the following configuration data (IMAGE MODALITY) as needed:

Item number	Configuration data description	Default setting
23	DICOM-defined tag numbers to be mapped onto a study menu	0040, 0100>0040, 0007
24	Specifies whether or not to perform study menu/exposure menu mapping. If “No” is selected, only the patient information will be used to initiate a study process.	Performs mapping.
25	Specifies whether or not to open a warning window when mapping is not successfully performed for a CL study menu or exposure menu.	Opens a warning window.

OE000040.EPS

3. Verifying the Connection

After the CL-AP has been started up, verify MWM and PPS operations.

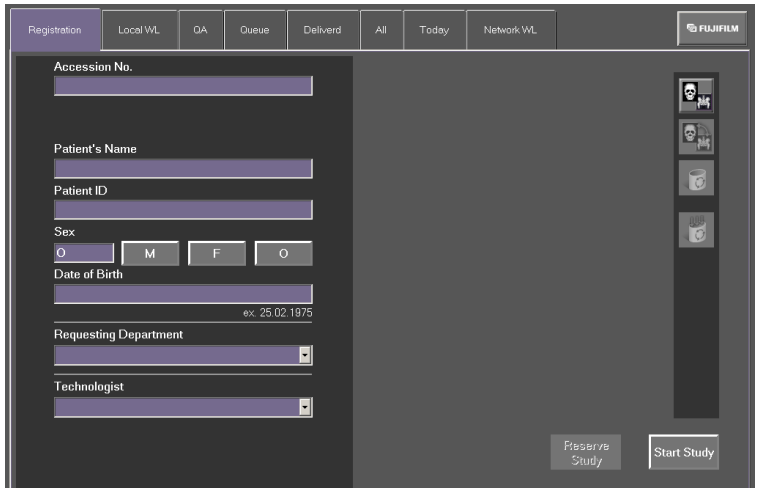


00000530.EPS

3.1 Starting the CL-AP

1. **From the Start menu, sequentially select “Programs”, “Fuji Film” and “FCR”.**

➔ The CL opening window opens.
After about one minute, the CL-AP reception window opens.



OE000016.EPS

3.2 Verifying MWM

Check to see that the patient information registered to the RIS appears in the MWM worklist.

Patient information registered to the RIS appears here.

OE000015.EPS

3.3 Verifying PPS

Make sure that the patient information of the study completed has been sent back to the RIS.

4. Backing Up the Setup File

Make a backup of the CL setup file.

For making a backup, have the following item on hand.

- Two DOS/V-formatted FDs.

☞ For details on the backup procedure, see “5. Restoring/Backing Up the Configuration File – Configuration Restore/Backup”, under “MU: Maintenance Utility”.

CL+Archiver (Storage Commitment Push)

This chapter describes the setup procedure for the Storage Commitment Push function on images to be transferred using DICOM CR Storage (Standard).

The DICOM Commitment Push function is to assure that images transferred have been stored in the archiver.

Images stored in the CL will not be deleted before a message comes from the archiver indicating that it has stored them accordingly.

◆ *NOTE* ◆

The "CR-IR346CL" will be abbreviated hereinafter simply "CL".

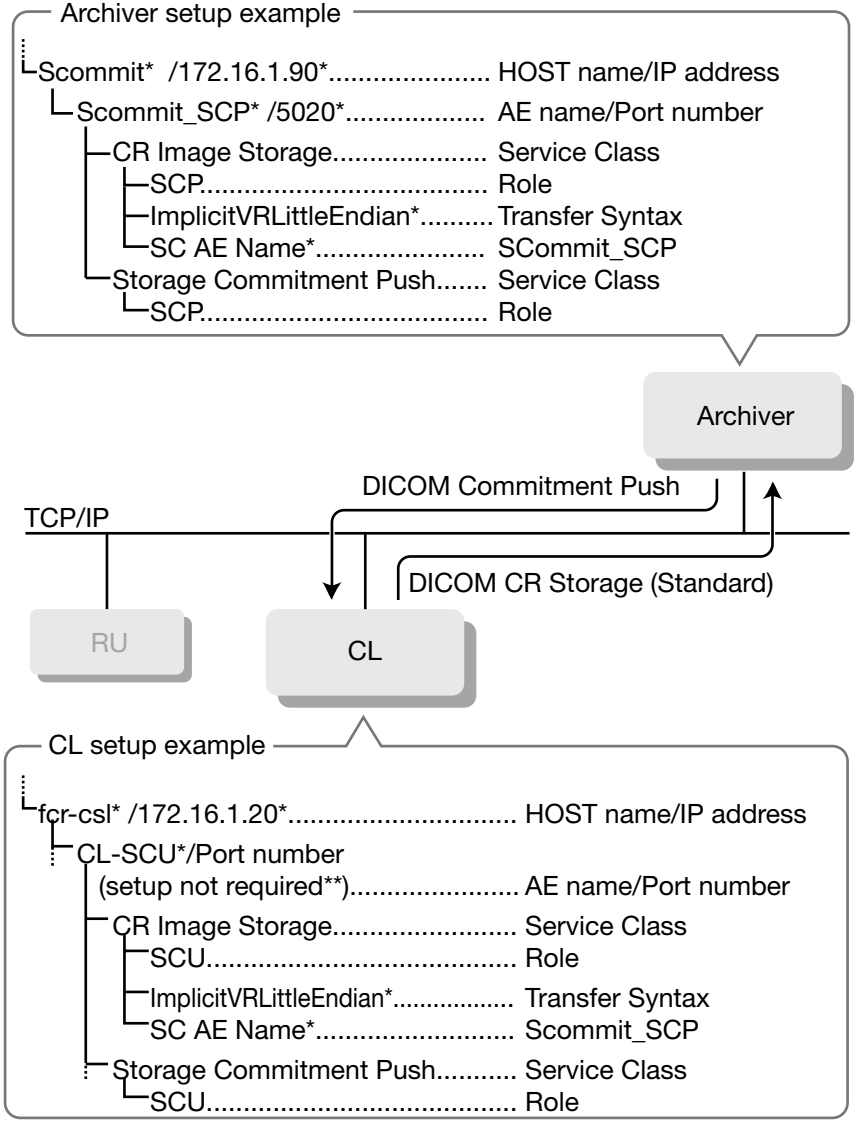
■ Prior to setup

- CL requirements
  - The CL main unit must have been set up.
  - Software version required: A01 or later.
  - Install the option key below.

Key Name	Functions Supported
IR346 DICOM COMMITMENT key	CR Storage SCU Standard Storage Commitment Push

■ Connection/setup example

This chapter describes the setup procedure using the connection/setup examples shown below.

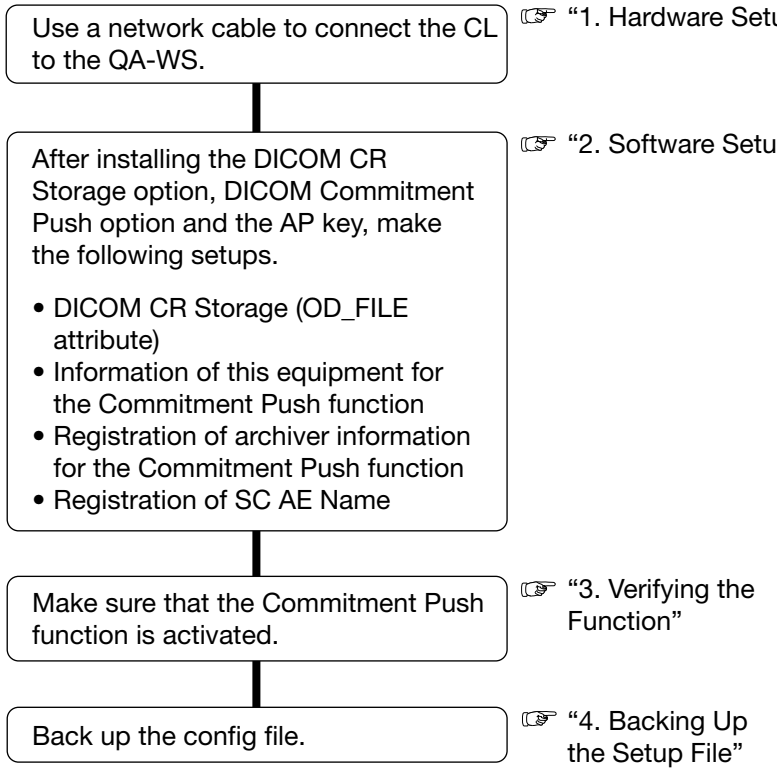


* Setup examples that need be changed depending on the equipment or network environment.

** Port number needs not be set up for the Service Class when the Role is SCU.

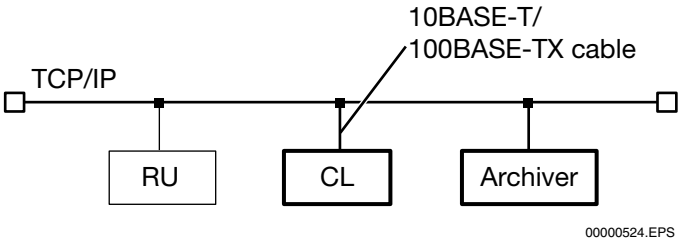
00000523.EPS

■ Overall operation flow


Use a network cable to connect the CL to the QA-WS.
☞ "1. Hardware Setup"
After installing the DICOM CR Storage option, DICOM Commitment Push option and the AP key, make the following setups.
• DICOM CR Storage (OD_FILE attribute)
• Information of this equipment for the Commitment Push function
• Registration of archiver information for the Commitment Push function
• Registration of SC AE Name
☞ "2. Software Setup"
Make sure that the Commitment Push function is activated.
☞ "3. Verifying the Function"
Back up the config file.
☞ "4. Backing Up the Setup File"
00000541.EPS

1. Hardware Setup

Connect the CL to the archiver via networks, as illustrated below.

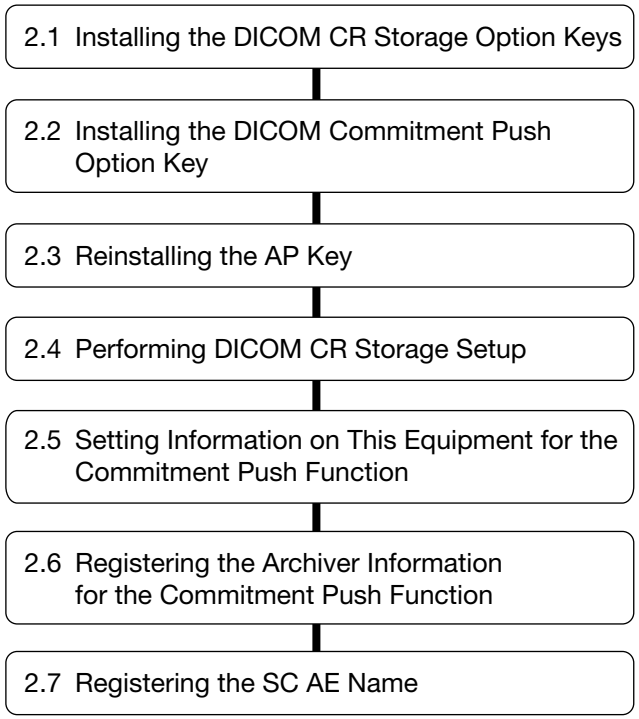


◆ *NOTES* ◆

- *Do not connect the telephone line to the CL network connectors.*
- *The IEC950/UL 1950-conformed cable is available for the CL.*

2. Software Setup

Set up the CL software by performing the following steps:


2.1 Installing the DICOM CR Storage Option Keys
2.2 Installing the DICOM Commitment Push Option Key
2.3 Reinstalling the AP Key
2.4 Performing DICOM CR Storage Setup
2.5 Setting Information on This Equipment for the Commitment Push Function
2.6 Registering the Archiver Information for the Commitment Push Function
2.7 Registering the SC AE Name

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2.1 Installing the DICOM CR Storage Option Keys

◆ NOTE ◆

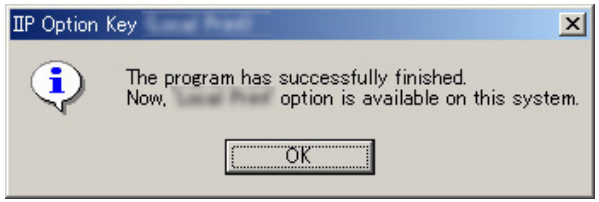
Before installing the DICOM Commitment Push option key, install the DICOM CR Storage option keys.

1. **Insert the option key CD into the CD-ROM drive.**

➔ After several seconds, the installation start window automatically opens.

2. **Click** Continue **.**

➔ A window opens to indicate the completion of installation.



00000085.EPS

3. **Click** OK **.**

➔ The installation start window opens again.

4. **In the same manner as indicated in steps 2 and 3, click** Continue **and then click** OK **.**

➔ You are then returned to the desktop screen.

5. **Remove the CD from the CD-ROM drive.**

➥ REFERENCE

The DICOM CR Storage option key CD stores two keys (Standard and Private). That is why the installation start window opens twice.

2.2 Installing the DICOM Commitment Push Option Key

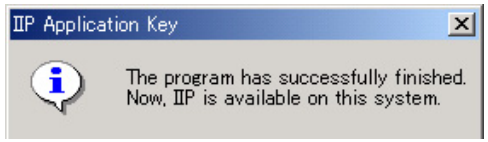
1. **Insert the option key CD into the CD-ROM drive.**
   ➔ After several seconds, the installation start window automatically opens.
2. **Click** Continue.
   ➔ A window opens to indicate the completion of installation.
3. **Click** OK.
   ➔ The installation start window opens again.
4. **Remove the CD from the CD-ROM drive.**

2.3 Reinstalling the AP Key

After option key installation, be sure to reinstall the AP key.

Use the AP key CD (114Y5342002A, Version A01 or later) to reinstall the AP key. The procedure is described below:

1. **Insert the AP key CD into the CD-ROM drive.**
   ➔ After a while, the installation start window automatically opens.
2. **Click** Continue.
   ➔ A window opens to indicate the completion of installation.



00000419.EPS

3. **Click** OK.
   ➔ The system returns to the desktop screen.
4. **Remove the CD from the CD-ROM drive.**

2.4 Performing DICOM CR Storage Setup

◆ NOTE ◆

Before using Storage Commitment Push, complete DICOM CR Storage setup for the archiver.

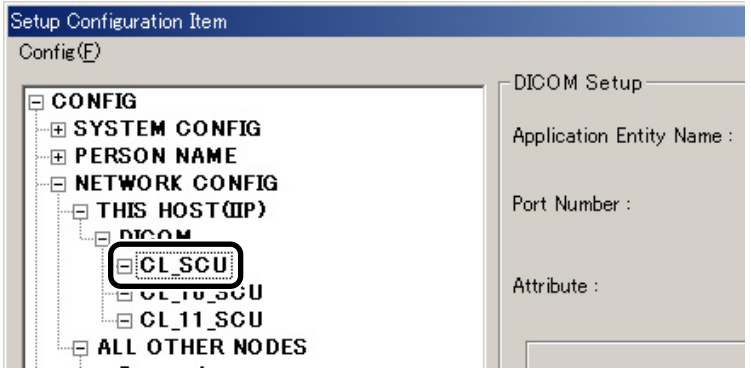
☞ For details on DICOM CR Storage setup, see “2.1.4 Setup for Information on This Equipment for the DICOM CR Storage Function”, and subsequent sections under “CL + HI-C655/QA-WS (DICOM CR Storage)” in “Connecting the CL to Other Equipment (OE3)”.

2.5 Setting Information on This Equipment for the Commitment Push Function

The following information items are to be set up by performing the procedure described in this section. This setup is performed in relation to the application entity on this equipment that is defined as directed in 2.4.

- Service Class, Role, and Transfer Syntax
- Other (timeout setting, etc.)

1. **On the “Setup Configuration Item” window, sequentially choose ⊞ NETWORK CONFIG, ⊟ THIS HOST(IP), ⊟ DICOM and ⊟ CL_SCU (DICOM CR Storage AE name).**

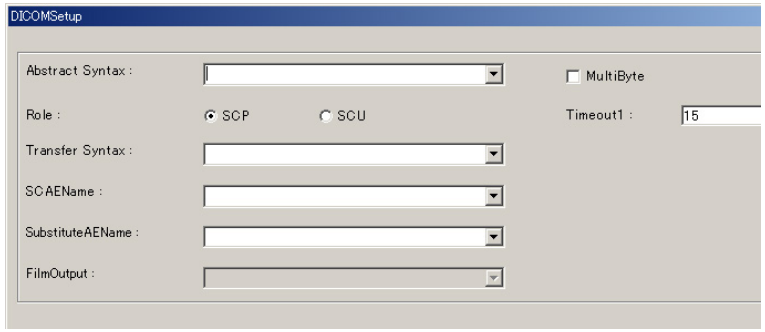


00000543.EPS

➔ The “DICOM Setup” window opens within the right-hand area of the current window.

2. Click New (positioned slightly below the center of the window).

➔ The “DICOMSetup” window opens.



00000533.EPS

3. Click the downward arrow mark for the Abstract Syntax : field and select “Service Class (StorageCommitmentPush)”.

4. Since the AE for “User” is to be set, choose SCU as the Role.

5. Adjust the Timeout1 : 15 setting (timeout value for the intervals between DICOM messages) as needed.

➔ ***REFERENCE***

You do not have to check MultiByte .
Even if it is checked, it will be disregarded even if “SCU” is chosen as the Role in step 4 above.

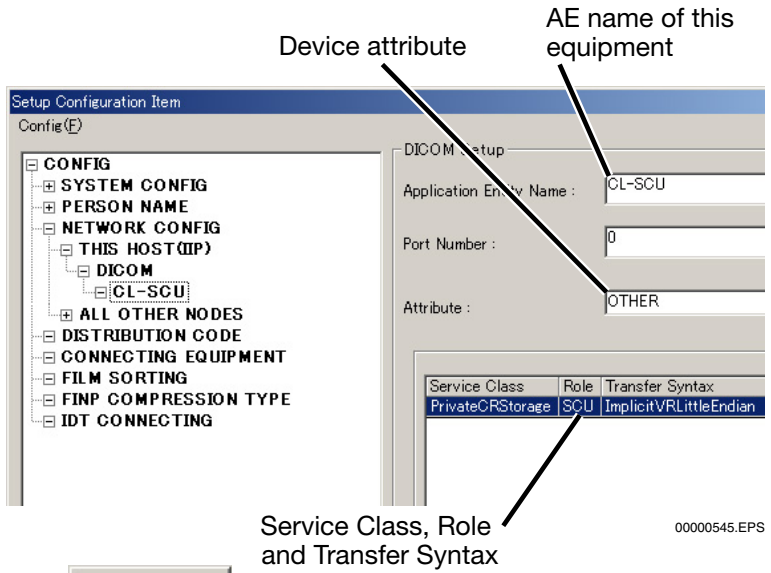
6. Click OK .

➔ You are then returned to the "Setup Configuration Item" window.

7. With the “Config (F)” menu, save the entered setup data.

➔ ***REFERENCE***

- *Items just have been set will appear on the right-side area of the “Setup Configuration Item” window. A displayed item can be changed. Whenever it is changed, never fail to click* Apply .



00000545.EPS

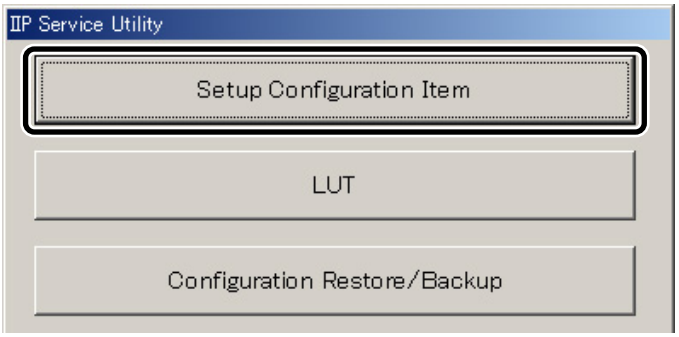
- *If the* Delete *key is clicked, currently selected items will be deleted.*

2.6 Registering the Archiver Information for the Commitment Push Function

The following information items are to be set up by performing the procedure described in this section. This setup is performed in relation to the archiver's application entity that is defined as directed in 2.4.

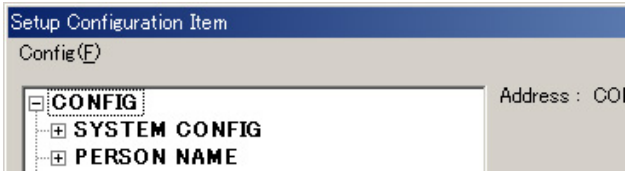
- Service Class, Role, and Transfer Syntax
- Other (2-byte character handling, setting for conversion from HQ images to standard images, etc.)

1. **On the "IIP Service Utility" window, click [Setup Configuration Item].**



00000131.EPS

➔ The "Setup Configuration Item" window opens.



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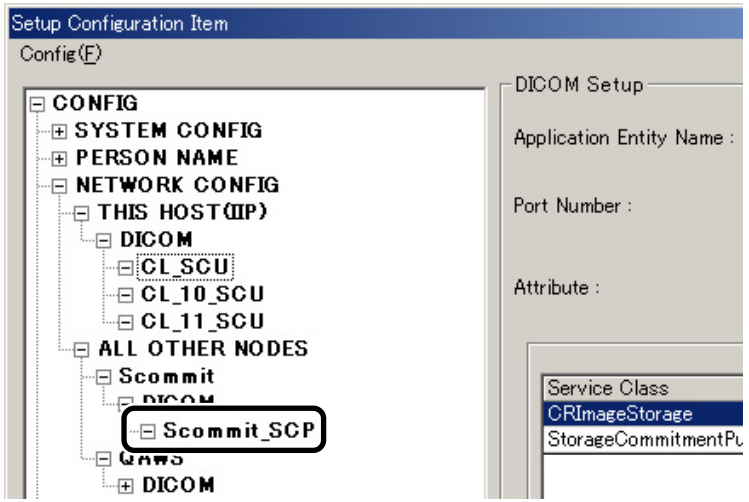
2. **Sequentially choose [⊞ NETWORK CONFIG], [⊞ ALL OTHER NODES], [⊟ Scommit] (archiver's host name), [⊟ DICOM] and [⊟ Scommit_SCP] (AE name for DICOM CR Storage).**

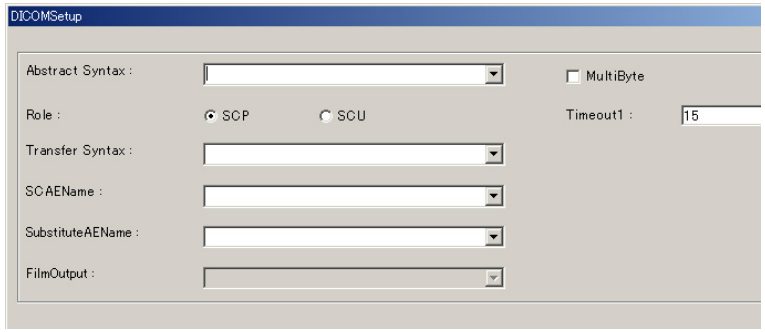


00000544.EPS

➔ The "DICOM Setup" window appears within the right-hand area of the current window.

3. Click New (positioned slightly below the center of the window).

➔ The “DICOMSetup” window opens.



00000533.EPS

4. Click the downward arrow mark ( ) for the Abstract Syntax : field and select “Service Class (StorageCommitmentPush)”.

5. Since the AE of the connected equipment is “Provider”, verify that SCP is chosen as the Role.

6. When handling 2-byte characters, check MultiByte (☐ ➔ ☑).

➥ ***REFERENCE***

You do not have to enter a setting in the Timeout1 : 15 field. Even if it is entered, it will be disregarded.

7. Click OK.

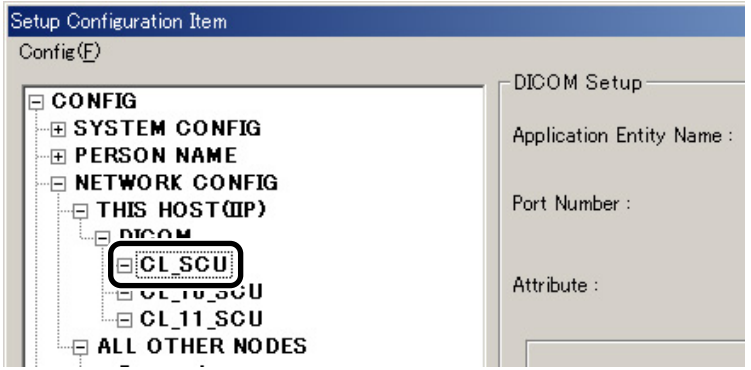
➔ You are then returned to the “Setup Configuration Item” window.

8. With the “Config (F)” menu, save the entered setup data.

2.7 Registering the SC AE Name

Perform the following procedure to register DICOM CR Storage (OD attribute) as the target of Commitment Push:

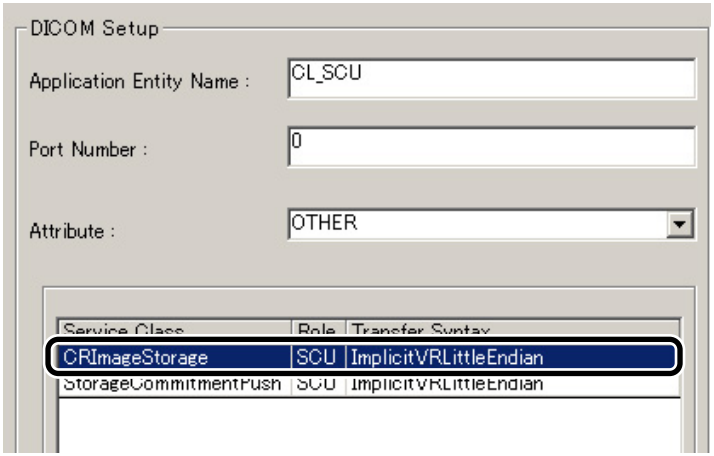
1. On the “Setup Configuration Item” window, sequentially choose ⊞ NETWORK CONFIG, ⊟ THIS HOST(IP), ⊟ DICOM and ⊟ CL_SCU (AE name for which Commitment Push is registered).



00000543.EPS

➔ The “DICOM Setup” window opens within the right-hand area of the current window.

2. From the list in the lower right corner of the window, select Service Class for “CR Image Storage” and then click Modify.



00000547.EPS

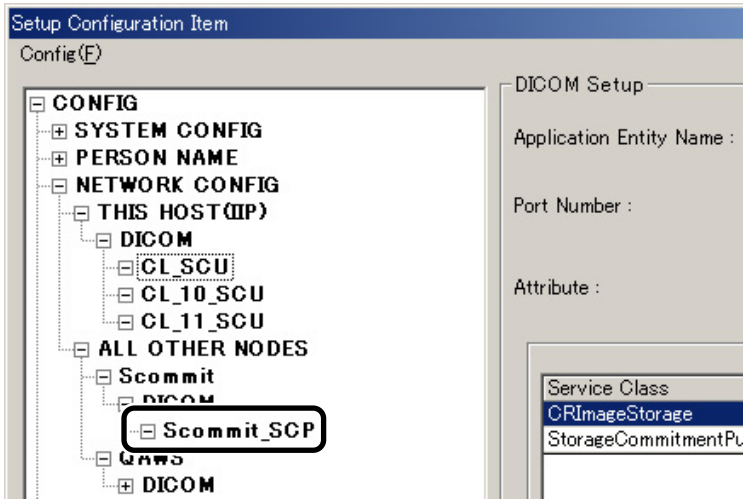
➔ The “DICOMSetup” window opens.

3. Click the downward arrow mark ( ) for the SCAEName : field and select the AE name of Commitment Push for the archiver (e.g.: Scommit_SCP).

4. Click OK.

➔ You are then returned to the “Setup Configuration Item” window.

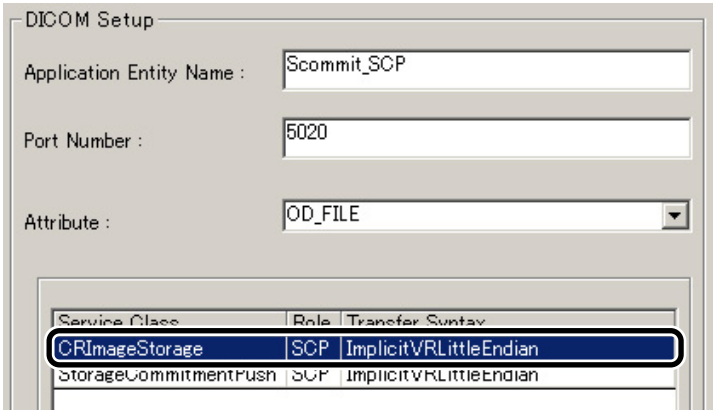
5. Sequentially choose NETWORK CONFIG, ALL OTHER NODES, Scommit (archiver’s host name), DICOM and Scommit_SCP (AE name of DICOM CR Storage).



00000544.EPS

➔ The “DICOM Setup” window opens within the right-hand area of the current window.

6. From the list in the lower right corner of the window, select Service Class for “CR Image Storage” and then click Modify.



00000548.EPS

➔ The “DICOMSetup” window opens.

7. **Click the downward arrow mark ( ) for the**

field and select the AE name of Commitment Push for the archiver (e.g.: Scommit_SCP).

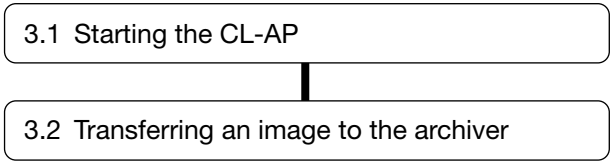
8. **Click** OK **.**

➔ You are then returned to the “Setup Configuration Item” window.

9. **With the “Config (F)” menu, save the entered setup data.**

3. Verifying the Function

Perform the following steps to start the CL-AP to verify Commitment Push function:



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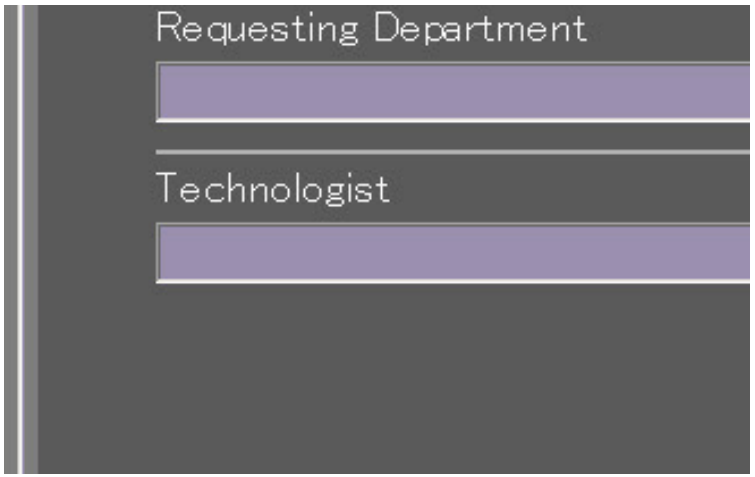
3.1 Starting the CL-AP

1. **From the Start menu, choose “Programs”, “Fuji Film” and “FCR”.**

➔ The CL opening window appears on the display.
After about one minute, the CL-AP reception window opens.



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3.2 Transferring an Image to the Archiver

Perform the following steps to transfer an image stored in the CL to the archiver and verify that the Commitment Push function properly works.

1. **Select the image to be transferred, and then transfer it to the archiver.**

2. **Check whether the CL displays a message to indicate the image has been stored in the archiver device.**

Also, perform a deletion procedure in relation to an image that is not transferred to the archiver to verify that the image remains undeleted.

☞ For detailed descriptions of the image transfer and image deletion procedures, see the CL Operation Manual.

4. Backing Up the Setup File

Back up the CL setup file.

For backup, furnish the following items:

• Two DOS/V-formatted FDs.

☞ For details of the backup procedure, see “5. Restoring/Backing Up the Configuration File – Configuration Restore/Backup”, under “MU: Maintenance Utility”.

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CL+QA-WS (Transfer of Energy Subtraction Images)

Described herein is the procedure used when transferring energy subtraction (“ES” hereinafter) images to the QA-WS.
To transfer ES images, the two Application Entities, one for the transfer of raw data (unstandardized images) and the other for the transfer of standardized images, must be set up.

◆ ***NOTE*** ◆

ES images can be transferred only via DICOM, and not via FINP.

◆ ***NOTE*** ◆

The “CR-IR348CL” is abbreviated hereinafter simply “CL”.

➥ ***REFERENCE***

The ES image consists of the following four types.
• Low-pressure image (L image)
• High-pressure image (H image)
• Bone image (B image)
• Soft tissue image (S image)

The low-pressure and high-pressure images are raw data (unstandardized images).
The bone and soft tissue images are standardized images generated from low-pressure and high-pressure images.

■ Prior to setup

● CL requirements

- The CL main unit must have been set up being incorporated into the 5000 plus (CR-IR348CL) system.
- Software version required: A02 or later
- Install the following option keys.

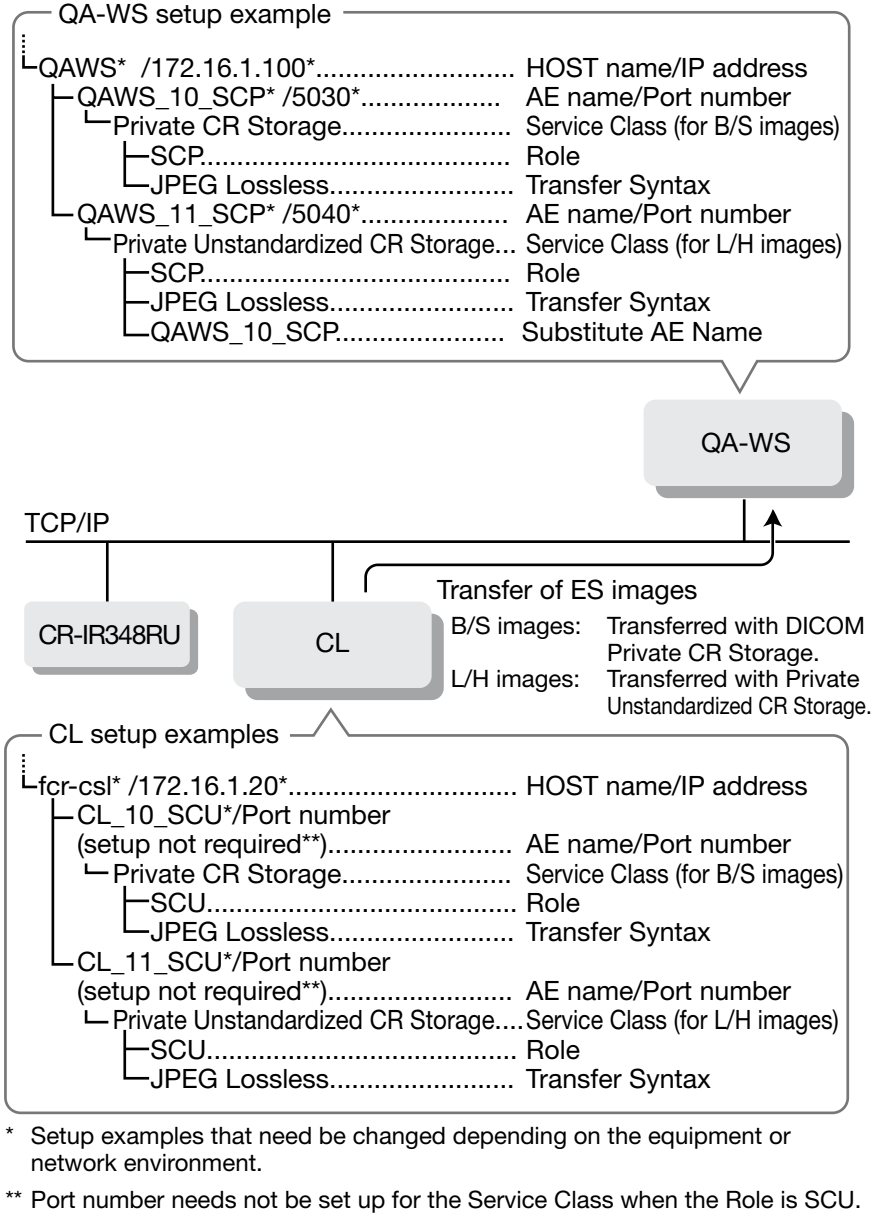
Key Name	Functions Supported
IR346 DICOM CR STORAGE Key	CR Storage SCU Standard CR Storage SCU Standard (includes Private Unstandardized CR Storage.)
CL ES	ES image processing function

● QA-WS requirements

- Software version required : A04 or later
- Install the DICOM Storage option key. (Standard/Private)

■ Connection/setup examples

The following connection/setup examples are used in this chapter to describe the setup procedure.


QA-WS setup example
QAWS* /172.16.1.100*..... HOST name/IP address
QAWS_10_SCP* /5030*..... AE name/Port number
Private CR Storage..... Service Class (for B/S images)
SCP..... Role
JPEG Lossless..... Transfer Syntax
QAWS_11_SCP* /5040*..... AE name/Port number
Private Unstandardized CR Storage... Service Class (for L/H images)
SCP..... Role
JPEG Lossless..... Transfer Syntax
QAWS_10_SCP..... Substitute AE Name
QA-WS
TCP/IP
CR-IR348RU
CL
Transfer of ES images
B/S images: Transferred with DICOM Private CR Storage.
L/H images: Transferred with Private Unstandardized CR Storage.
CL setup examples
fcr-csl* /172.16.1.20*..... HOST name/IP address
CL_10_SCU*/Port number
(setup not required**)..... AE name/Port number
Private CR Storage..... Service Class (for B/S images)
SCU..... Role
JPEG Lossless..... Transfer Syntax
CL_11_SCU*/Port number
(setup not required**)..... AE name/Port number
Private Unstandardized CR Storage.... Service Class (for L/H images)
SCU..... Role
JPEG Lossless..... Transfer Syntax

* Setup examples that need be changed depending on the equipment or network environment.

** Port number needs not be set up for the Service Class when the Role is SCU.

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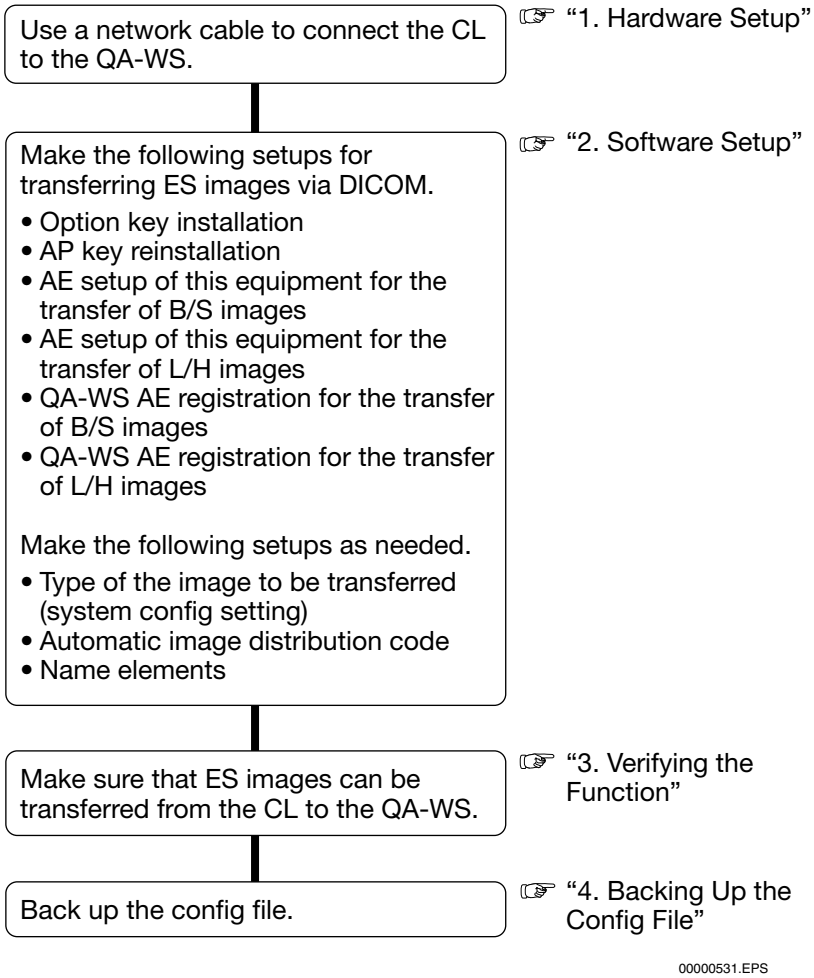
■ Overall operation flow


Use a network cable to connect the CL to the QA-WS.
☞ "1. Hardware Setup"
Make the following setups for transferring ES images via DICOM.
• Option key installation
• AP key reinstallation
• AE setup of this equipment for the transfer of B/S images
• AE setup of this equipment for the transfer of L/H images
• QA-WS AE registration for the transfer of B/S images
• QA-WS AE registration for the transfer of L/H images
Make the following setups as needed.
• Type of the image to be transferred (system config setting)
• Automatic image distribution code
• Name elements
☞ "2. Software Setup"
Make sure that ES images can be transferred from the CL to the QA-WS.
☞ "3. Verifying the Function"
Back up the config file.
☞ "4. Backing Up the Config File"

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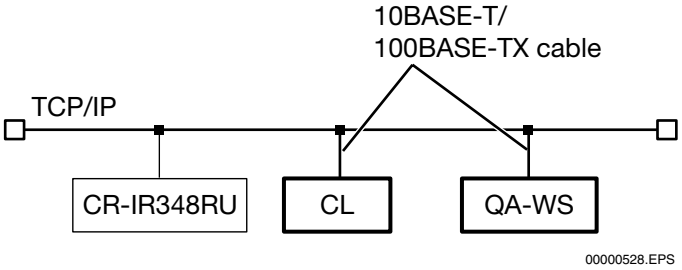
1. Hardware Setup

Connect the CL to the QA-WS via networks, as illustrated below.

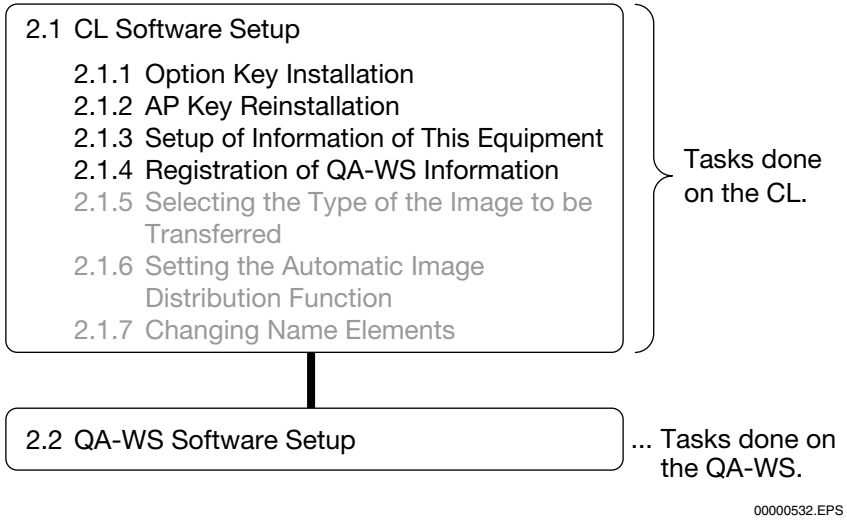


◆ *NOTE* ◆

- *Do not connect the telephone line to the CL and QA-WS network connectors.*
- *The IEC950/UL1950-conformed cable is available for the CL and QA-WS.*

2. Software Setup

Set up software for the CL and QA-WS as follows.
Grayed-out items are those to be set up as necessary. Set up all other items.


2.1 CL Software Setup
2.1.1 Option Key Installation
2.1.2 AP Key Reinstallation
2.1.3 Setup of Information of This Equipment
2.1.4 Registration of QA-WS Information
2.1.5 Selecting the Type of the Image to be Transferred
2.1.6 Setting the Automatic Image Distribution Function
2.1.7 Changing Name Elements
Tasks done on the CL.
2.2 QA-WS Software Setup
... Tasks done on the QA-WS.
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2.1 CL Software Setup

2.1.1 Option Key Installation

The option key of the following two types is installed according to the procedure presented below.

- IR346 DICOM CR STORAGE (Standard/Private)
- CL ES (ES image processing function)

1. **Insert the IR346 DICOM CR STORAGE option key into the CD-ROM drive.**

➔ Within a few seconds, the installation start window opens.

2. **Click** Continue **.**

➔ A window opens to indicate the completion of the installation processing.

3. **Click** OK **.**

➔ The system returns to the desktop screen.

4. **Remove the CD from the CD-ROM drive.**

➥ ***REFERENECE***

The installation start window opens twice because the two kinds of keys, Standard and Private, are stored on the IR346 DICOM CR STORAGE option key CD.

5. **Repeat steps 2. and 3. above to install the CL ES option key.**

2.1.2 AP Key Reinstallation

If the option keys are installed, be sure to reinstall the AP key.

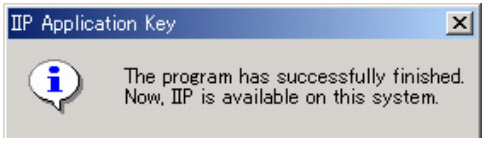
Use the AP key CD (114Y5342002A: Version A00) to reinstall the AP key. The reinstallation procedure is shown below.

1. **Insert the AP key CD into the CD-ROM drive.**

➔ After a while, the installation start window automatically opens.

2. **Click** Continue.

➔ A window opens to indicate the completion of installation.



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3. **Click** OK.

➔ The system returns to the desktop screen.

4. **Remove the CD from the CD-ROM drive.**

2.1.3 Setup of Information of This Equipment

For the transfer of B/S and L/H images, set up information of this equipment using Service Utility “NETWORK CONFIG” and “THIS HOST (IIP)”.

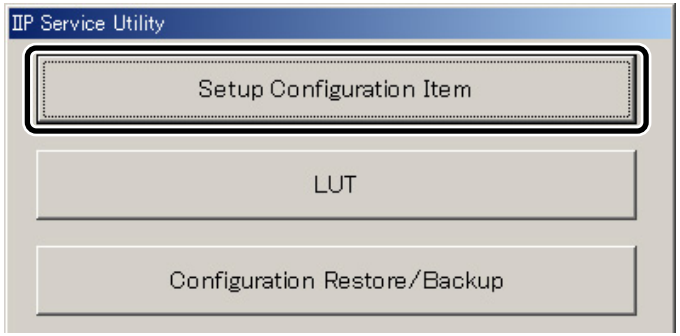
■ Setup for the transfer of B/S images

The procedure explained herein involves setups of the following items.

- AE name of this equipment for the transfer of B/S images (Application Entity Name)
- Device attribute of this equipment (OTHER)
- Service Class and Role
- Other (timeout setting, etc.)

1. **Start up the Service Utility mode and click [Setup Configuration Item].**

☞ For how to start up the Service Utility mode, see “1. Starting/Exiting the Service Utility” under “MU: Maintenance Utility”.



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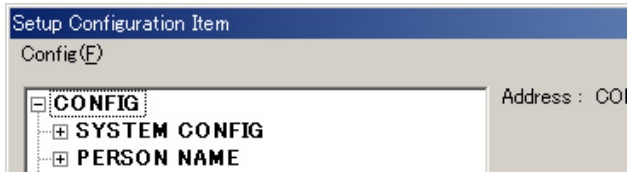
➔ The “Setup Configuration Item” window opens.



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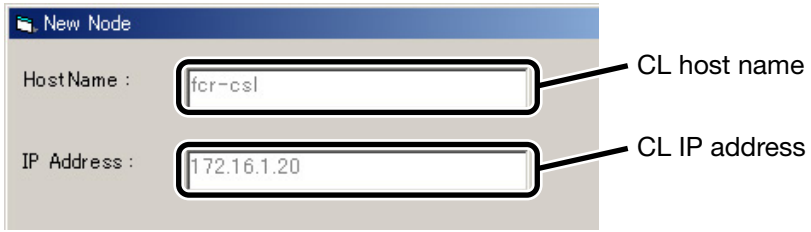
2. Click the ⊞ sign within ⊞ NETWORK CONFIG.

3. Select ⊟ THIS HOST(IP) and click New.

➔ The “New Node” window opens.

4. Check to see that the CL host name and IP address are displayed.



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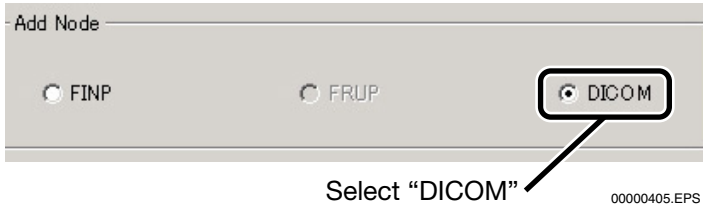
◆ ***NOTE*** ◆

Unless the CL is network-conne
cted, the IP address will not be displayed correctly.

5. Select “DICOM” and click OK.



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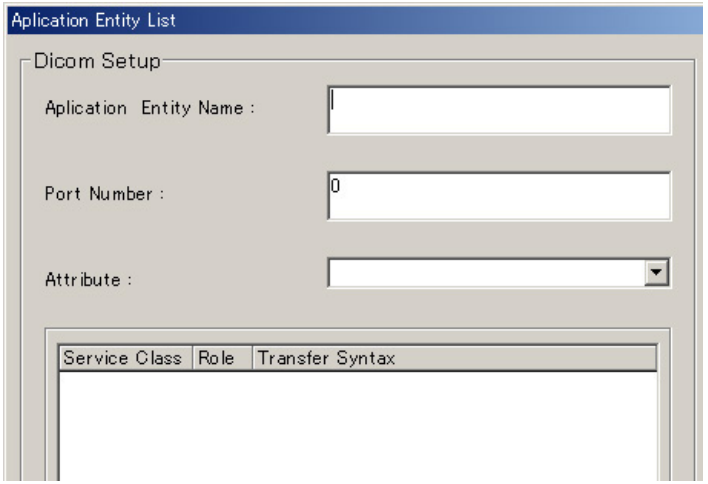
➔ The “Application Entity List” window opens.



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6. Make settings as follows.

❍ For the transfer of B/S images, enter the AE name that is the SCU for the CL (e.g.: CL_10_SCU) in the Aplication Entity Name : field.

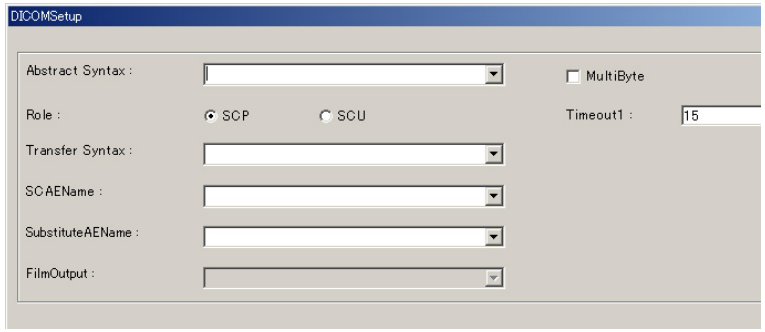
❍ Click the downward arrow in the Attribute : field to select the device attribute (OTHER).

◆ ***NOTE*** ◆

You need not to set Port Number : 0 *(Port number). Even if SCU is selected for the Role, it will be disregarded.*

7. Click New.

➔ The "DICOMSetup" window opens.



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8. Click the downward arrow in the Abstract Syntax : field and select the Service Class (Private CR Storage).

➥ ***REFERENCE***

"Verification" is the Service Class used to verify connection between DICOM equipment units. For verifying connection, "Verification" must be selected.

☞ *For details of verification of connection, see "7. Verifying the Connection to Other Connected Equipment – Verify Connection" under "MU: Maintenance Utility".*

9. To set up the AE that is the User, select SCU (SCU) for the Role.

➥ ***REFERENCE***

If "SCU" is selected, items that need not be set will be hidden on the "DICOMSetup" window.

10. Click the downward arrow in the Transfer Syntax : field and select the Transfer Syntax (JPEG Lossless).

◆ ***NOTE*** ◆

For the transfer of ES images, only the JPEG Lossless Transfer Syntax will be supported.

11. Set Timeout1 : 15 (DICOM inter-message timeout value) as necessary.

➥ ***REFERENCE***

MultiByte *needs not be checked. Even if checked, it will be disregarded. (It is effective only when SCP is specified for the Role.)*

12. Click OK.

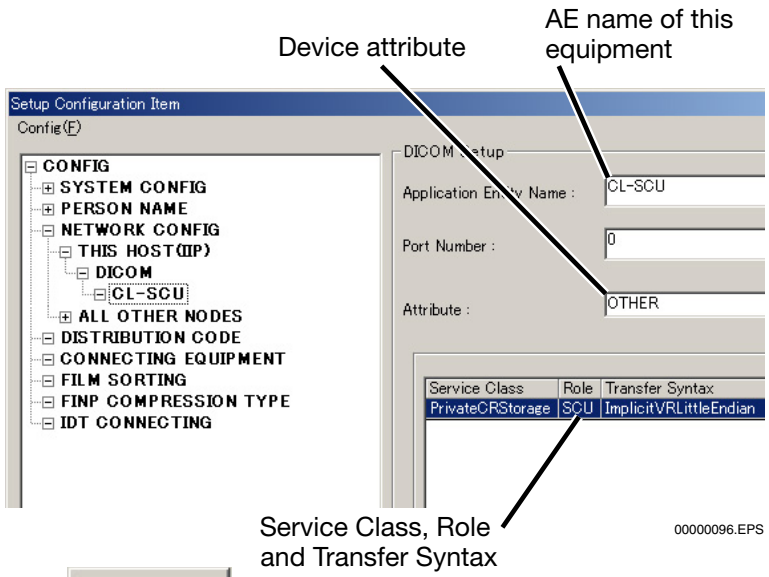
➔ You are returned to the “Application Entity List” window.

13. Click OK.

➔ You are returned to the “Setup Configuration Item” window.

➥ ***REFERENCE***

- *Items just have been set will appear on the right-side area of the “Setup Configuration Item” window. A displayed item can be changed. Whenever it is changed, never fail to click* Apply.



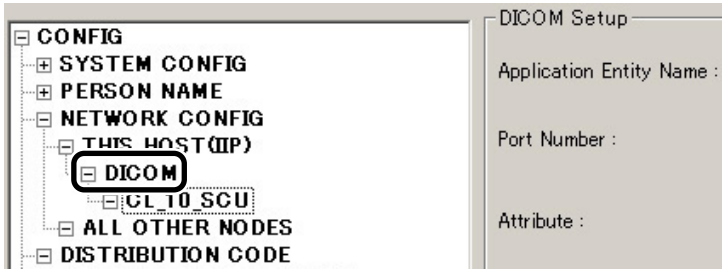
- *If the* Delete *key is clicked, currently selected items will be deleted.*

■ Setup for the transfer of L/H images

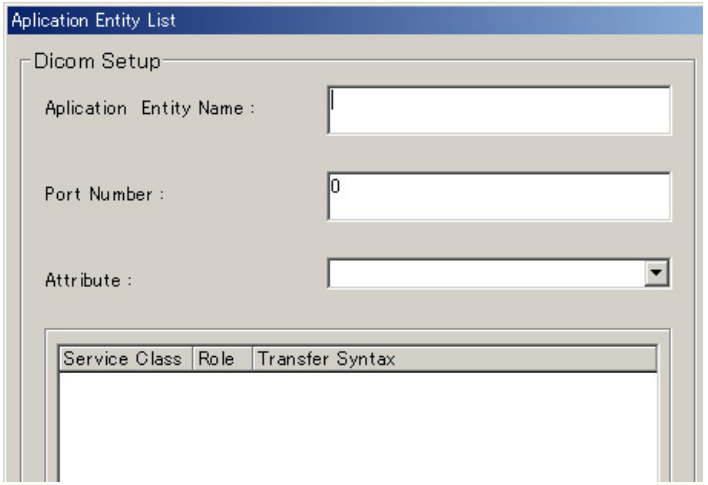
The procedure explained herein involves setups of the following items.

- AE name of this equipment for the transfer of L/H images (Application Entity Name)
- Device attribute of this equipment (OTHER)
- Service Class and Role
- Other (timeout setting, etc.)

1. Select ⊟ DICOM on the “Setup Configuration Item” window and click New.



➔ The “Application Entity List” window opens.



2. **Make settings as follows.**

❍ For the transfer of L/H images, enter the AE name that is the SCU for the CL (e.g.: CL_11_SCU) in the

Aplication Entity Name : field.

❍ Click the downward arrow in the

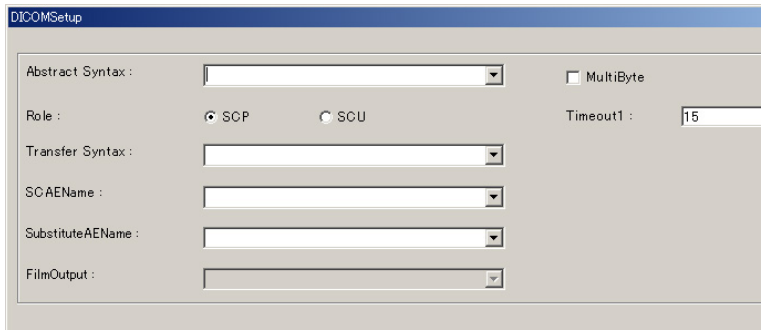
Attribute : field to select the device attribute (OTHER).

◆ NOTE ◆

You need not to set Port Number : 0 *(Port number). Even if SCU is selected for the Role, it will be disregarded.*

3. **Click** New **.**

➔ The "DICOMSetup" window opens.



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4. **Click the downward arrow in the** Abstract Syntax : **field and select the Service Class (Private Unstandardized CR Storage).**

5. **To set up the AE that is the User, select** SCU **(SCU) for the Role.**

➥ *REFERENCE*

If "SCU" is selected, items that need not be set will be hidden on the "DICOMSetup" window.

6. **Click the downward arrow in the** Transfer Syntax : **field and select the Transfer Syntax (JPEG Lossless).**

◆ NOTE ◆

For the transfer of ES images, only the JPEG Lossless Transfer Syntax is supported.

7. **Set** Timeout1 : 15 **(DICOM inter-message timeout value) as necessary.**

➥ *REFERENCE*

MultiByte *needs not be checked. Even if set, it will be disregarded. (It is effective only when SCP is specified for the Role.)*

8. **Click** OK **.**

➔ You are returned to the "Application Entity List" window.

9. **Click** OK **.**

➔ You are returned to the "Setup Configuration Item" window.

2.1.4 Registration of QA-WS Information

Follow the procedure described herein to register QA-WS information that is used for the transfer of both B/S and L/H images.
Register QA-WS information using “NETWORK CONFIG” and “ALL OTHER NODES” in the Service Utility mode.

■ Setup for the transfer of B/S images

The procedure explained herein is used to set up the following items.

- QA-WS Host name and IP address
- QA-WS AE name (Application Entity Name) and Port number for the transfer of B/S images
- QA-WS device attribute (HD_FILE)
- Service Class and Role
- Other (handling of two-byte characters, setting for conversion from HQ image to standard image, etc.)

1. **Select ⊞ ALL OTHER NODES on the “Setup Configuration Item” window and click New.**

➔ The “New Node” window opens.

2. **Make the following settings.**

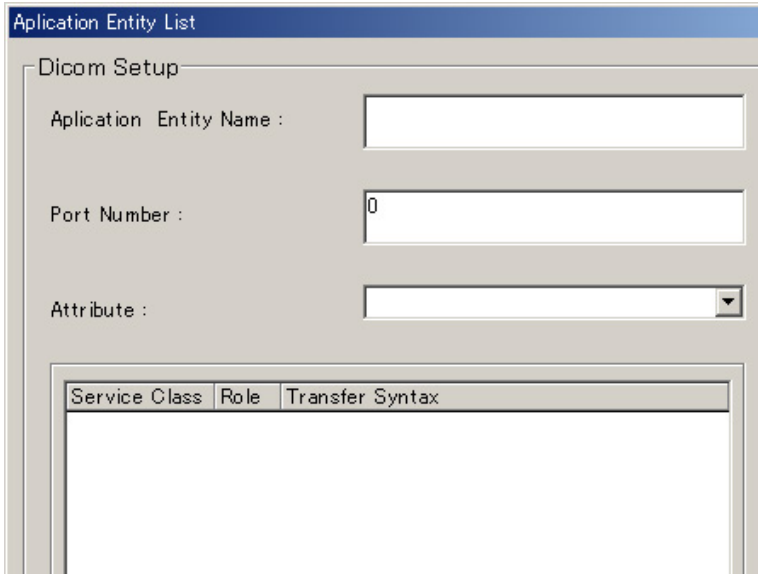
❍ Enter the Host name (e.g.: QAWS) in the HostName : field.

❍ Enter the IP address (e.g.: 172.16.1.100) in the IP Address : field.

❍ Select “DICOM”.

3. **Click OK.**

➔ The “Application Entity List” window opens.



4. **Make the following settings.**

❍ Enter the QA-WS AE name (e.g.: QAWS_10_SCP) in the Aplication Entity Name : field.

◆ *NOTE* ◆

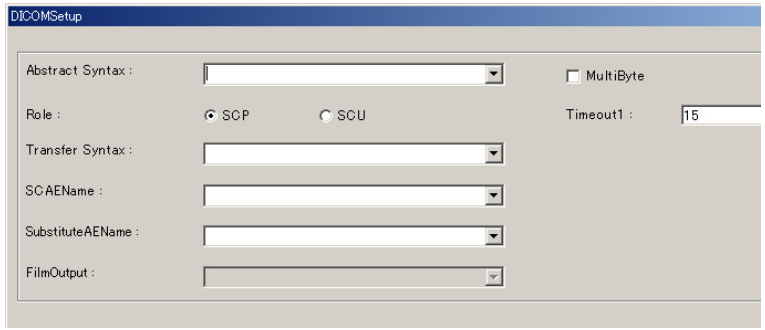
• Never fail to enter the SCP AE name.
• Be sure to enter the upper- or lower-case characters correctly.

❍ Enter the QA-WS Port number (e.g.: 5030) in the Port Number : 0 field.

❍ Click the downward arrow of the Attribute : field and select the QA-WS device attribute (HD_FILE).

5. Click New.

➔ The “DICOMSetup” window opens.



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6. Click the downward arrow of the Abstract Syntax : field and select the Service Class (Private CR Storage).

7. Check to see that SCP (SCP) has been selected for the Role because the QA-WS AE is Provider.

8. Click the downward arrow of the Transfer Syntax : field and select the Transfer Syntax (JPEG Lossless).

◆ ***NOTE*** ◆

For the transfer of ES images, only the JPEG Lossless Transfer Syntax is supported.

9. Change the following settings as required.

❍ Setting of Acceptable Density: ST / ST & HQ / ST & HQ & SH

ST: Select if the QA-WS cannot receive HQ images.

ST & HQ: Select if the QA-WS can receive HQ images.

SH: Do not select because this is for mammographic images.

❍ Setting of Default Output Density: ST / HQ / SH

ST: Select when transferring standard images only.

ST & HQ: Select when transferring both standard and HQ images.

10. Select NONE(N) in the Image Processing: NONE(N) / PROC field.

11. To handle two-byte characters, check the MultiByte box (to).

➥ ***REFERENCE***

Timeout1 : 15 *needs not be checked.*

Even if checked, it will be disregarded.

12. Click OK.

➔ You are returned to the “Application Entity List” window.

13. Click OK.

➔ You are returned to the “Setup Configuration Item” window.

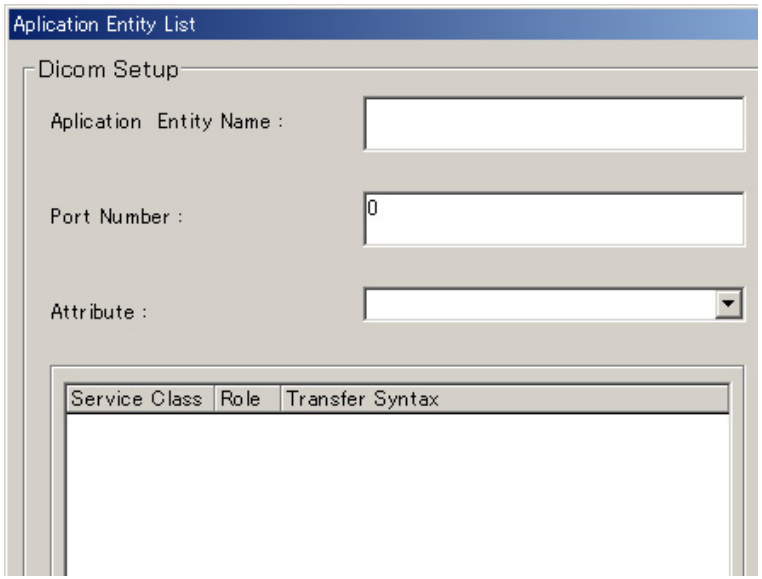
■ Setup for the transfer of L/H images

The procedure explained herein is used to set up the following items.

- QA-WS Host name and IP address [already set as per the procedure described above]
- QA-WS AE name (Application Entity Name) and Port number for the transfer of L/H images
- QA-WS device attribute (HD_FILE)
- Service Class and Role
- Other (handling of two-byte characters, setting for conversion from HQ image to standard image, etc.)

1. Sequentially select ⊞ NETWORK CONFIG, ⊞ ALL OTHER NODES, ⊟ QAWS (QA-WS Host name) and ⊟ DICOM on the "Setup Configuration Item" window and then click New.

➔ The "Application Entity List" window opens.



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2. Make the following settings.

❍ Enter the QA-WS AE name (e.g.: QAWS_11_SCP) in the Aplication Entity Name : field.

◆ NOTES ◆

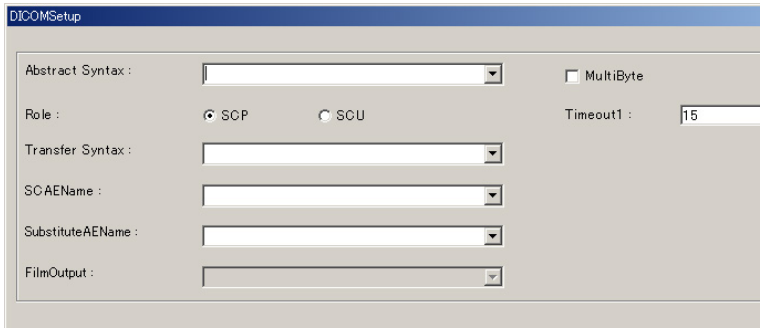
• Never fail to enter the SCP AE name.
• Be sure to enter the upper- or lower-case characters correctly.

❍ Enter the QA-WS Port number (e.g.: 5040) in the Port Number : 0 field.

❍ Click the downward arrow of the Attribute : field and select the QA-WS device attribute (HD_FILE).

3. Click New.

➔ The "DICOMSetup" window opens.



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4. Click the downward arrow of the Abstract Syntax : and select the Service Class (Private Unstandardized CR Storage).

5. Check to see that SCP (SCP) has been selected for the Role because the QA-WS AE is Provider.

6. Click the downward arrow of the Transfer Syntax : field and select the Transfer Syntax (JPEG Lossless).

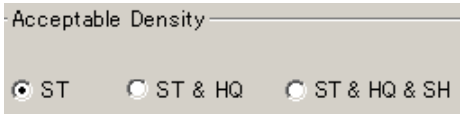
◆ NOTE ◆

For the transfer of ES images, only the JPEG Lossless Transfer Syntax is supported.

7. Click the downward arrow of the SubstituteAEName : field and select the AE name (e.g.: QAWS_10_SCP) used for the transfer of B/S images.

8. Change the following settings as required.

❍ Setting of



ST: Select if the QA-WS cannot receive HQ images.

ST & HQ: Select if the QA-WS can receive HQ images.

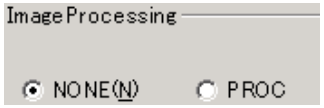
SH: Do not select because this is for mammographic images.

❍ Setting of

ST: Select when transferring standard images only.

ST & HQ: Select when transferring both standard and HQ images.

9. Select NONE(N) in the



field.

10. To handle two-byte characters, check the MultiByte box (to).

➥ REFERENCE

Timeout1 : 15 *needs not be checked.*

Even if checked, it will be disregarded.

11. Click OK.

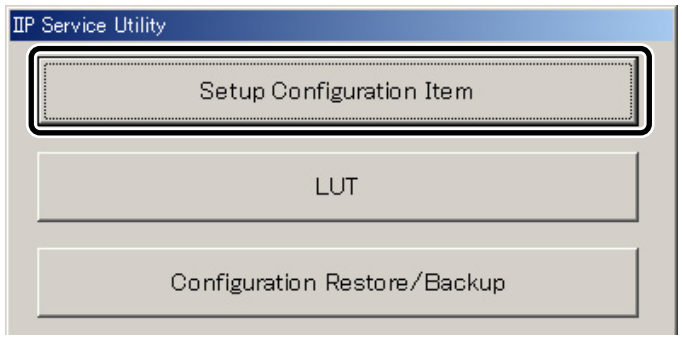
➔ You are returned to the “Application Entity List” window.

12. Click OK.

➔ You are returned to the “Setup Configuration Item” window.

2.1.5 Selecting the Type of the Image to be Transferred

1. Click [Setup Configuration Item] on the "IIP Service Utility" window.



00000159.EPS

➔ The "Setup Configuration Item" window opens.

2. Select ⊟ SYSTEM CONFIG and then ⊟ 1.IMAGE MODALITY on the "Setup Configuration Item" window.

3. Double-click 0:L,H,B,S of

19 Kind of Output Image (Energy Subtraction)

to select the combination of types of images to be transferred to the QA-WS.

➥ REFERENCE

The following combinations are available.
0.L,H,B,S: L/H/B/S images
1.L,B,S: L/B/S images
2.L,S: L/S images
3.L,B: L/B images
4.L,H: L/H images

4. When a setup item is changed, save it using the [Config] menu.

2.1.6 Setting the Automatic Image Distribution Function

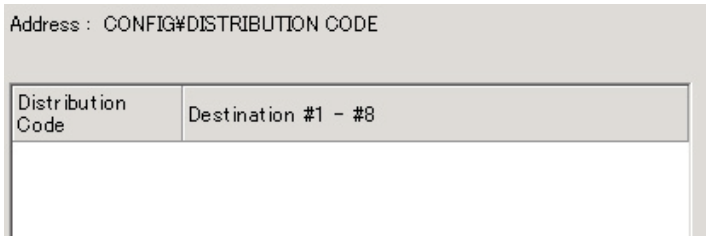
To automatically transfer images coming from the CR-IR348RU, set the automatic image distribution function.

◆ NOTE ◆

To enable the automatic image distribution function, set "Enable Distribution Code Setup" ("SYSTEM CONFIG" and then item No. 3 of "5. CSL/IDT FUCNTION") in Service Utility to "Yes".

1. Click ⊟ DISTRIBUTION CODE on the "Setup Configuration Item" window.

➔ A list of devices to which images are distributed will appear on the right-hand side on the window.



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2. Click New.

➔ The "Distribution Code" window opens.

3. Make the following settings.

❍ Enter an 8-digit distribution code (e.g.: 12345678) in the Distribution Code : field.

❍ Click the downward arrow in the Destination node #1 : field and select the equipment AE name (e.g.: QAWS_10_SCP).

4. Click OK to save the setup data.

2.1.7 Changing Name Elements

☞ “3.7 Setting Name Elements When DICOM is Connected” under “MU: Maintenance Utility”.

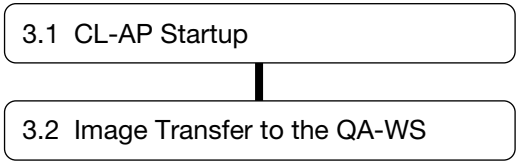
2.2 QA-WS Software Setup

Set up DICOM CR Storage so that the QA-WS can receive images coming from the CL.

☞ See “XXXXXXXX” in “Maintenance” of the QA-WS Service Manual.

3. Verifying the Function

Start up the CL-AP and then make sure that images can be transferred from the CL to the QA-WS.



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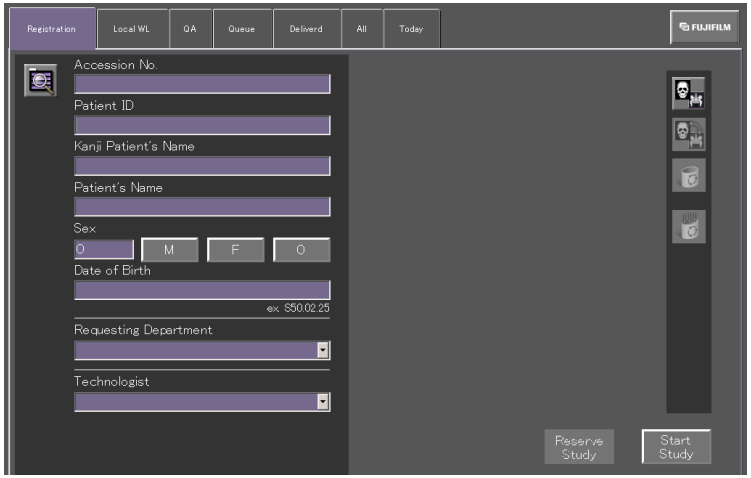
3.1 CL-AP Startup

1. **From the Start menu, sequentially select “Programs”, “Fuji Film” and “FCR”.**

➔ The CL opening window appears on the display.
After about one minute, the CL-AP reception window opens.



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3.2 Image Transfer to the QA-WS

Transfer ES images that have been read on the 5501ES to the QA-WS.

1. **Register exposure menus for ES images and perform image reading on the FCR5501ES.**

2. **Select images transferred from the FCR5501ES and send thus selected images to the QA-WS.**

☞ For details of the procedure used for transferring images to the QA-WS, see “FCR XG-1 CR-IR346CL” of the CL Operation Manual.

3. **Make sure on the QA-WS side that images have been transferred correctly.**

4. Backing Up the Setup File

Back up the CL setup file.

Have the following ready to use for backup.

- Two DOS/V-formatted FDs

☞ For details of the backup procedure, see “5. Restoring/Backing Up the Configuration File – Configuration Restore/Backup” under “MU: Maintenance Utility”.

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CL + RIS (Ordering) [simplified]

Presented below is the procedure for setting up the ordering function used to obtain ordering information from the RIS.

◆ ***NOTE*** ◆

Only serial interface supports ordering from the RIS.

■ Setups necessary for RIS ordering

//Being now prepared.//

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CL+X-Ray Controller (Serial Connection)

An X-Ray Controller is not supported yet.

■ Prior to setup

● CL requirements

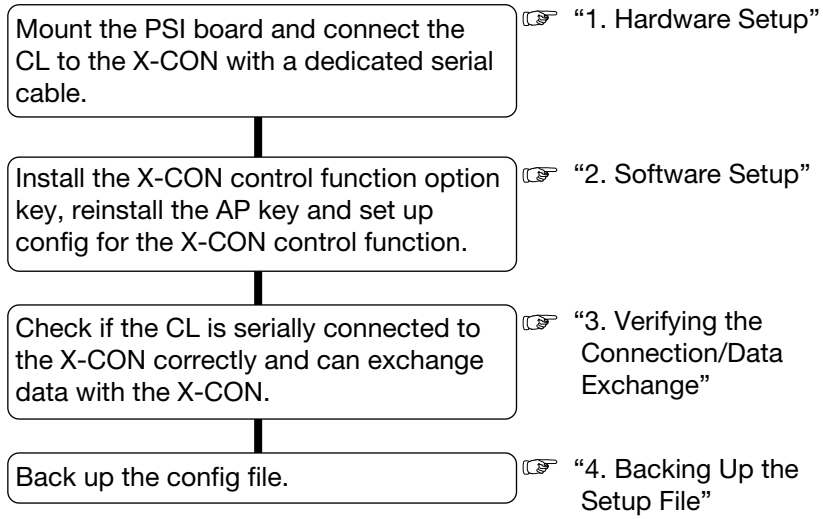
- The CL main unit must have been set up accordingly.
- Software version required: A04 or later
- The X-CON control function option key (CL X ONLINE) is required.

● X-CON

- The connected host main unit must have been set up accordingly.
- X-CON supported by the CL are as follows:

Maker	Product Name
Toshiba	
Shimadzu	
Hitachi	
Philips	
Siemens	

■ Overall operation flow


Mount the PSI board and connect the CL to the X-CON with a dedicated serial cable.
☞ “1. Hardware Setup”
Install the X-CON control function option key, reinstall the AP key and set up config for the X-CON control function.
☞ “2. Software Setup”
Check if the CL is serially connected to the X-CON correctly and can exchange data with the X-CON.
☞ “3. Verifying the Connection/Data Exchange”
Back up the config file.
☞ “4. Backing Up the Setup File”

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1. Hardware Setup

1.1 Mounting the PSI04A Board ..... Mount the PSI board in the CL-PC PCI bus slot.

1.2 Connecting the Cable ..... Connect the CL to the RIS with a dedicated serial cable.

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1.1 Mounting the PSI04A Board

◆ ***NOTE*** ◆

Before mounting the PSI board, make sure that the CL-AP has been installed.
If the CL-AP has not been installed, the PSI board (serial interface board) driver will not be recognized correctly.

1. **Shut down the CL and turn OFF the power to the CL-PC.**

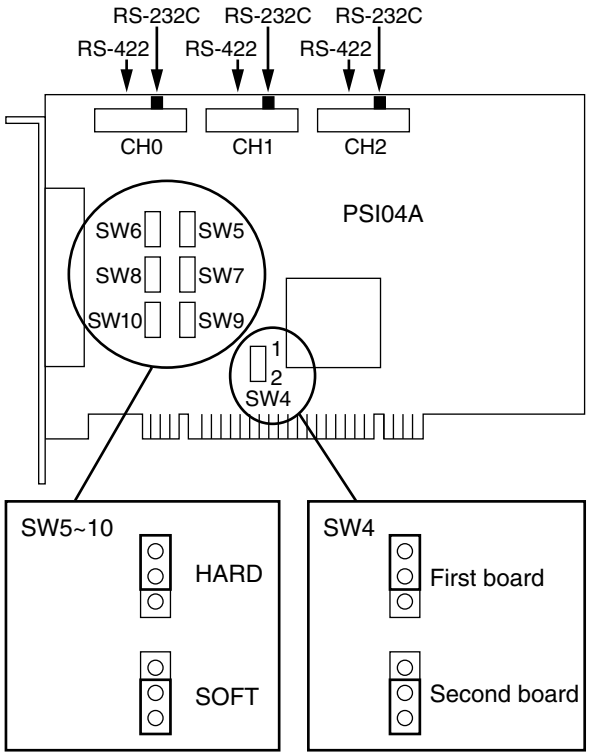
2. **Disconnect the power cable from the CL-PC.**

3. **Make sure that the PSI board is set up as illustrated below. Use CH0, CH1 or CH2 to select RS-422 or RS-232C.**

CH0, CH1 and CH2 may be used for the following connectors.

- First board
  CH0: CH-A CH1: CH-B CH2: CH-C
- Second board
  CH0: CH-D CH1: CH-E CH2: CH-F

When setting CH0, CH1 and CH2, confirm the interface (RS-422 or RS-232C) between connected devices.



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	Function	Settings	Remarks
SW5	Selection whether to output CH0 remote power control signal (at master status) as is as a contact signal or to control with the register	Setup for output of contact signal as is: Hardware Register control : Software	This function is enabled regardless of whether CH0, CH1 and CH2 are set for RS422 or RS232C. Setup for output of contact signal as is: Outputs power supply status to the no. 8 pin of CN1 as a contact signal (same as for CN2 and CN3). Register control setting: Contact signal that is output to the no. 8 pin of CN1 can be changed by changing register setting values (same as for CN2 and CN3).
SW7	Selection whether to output CH1 remote power control signal (at master status) as is as a contact signal or to control with the register.		
SW9	Selection whether to output CH2 remote power control signal (at master status) as is as a contact signal or to control with the register.		

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	Function	Settings	Remarks
SW6	Selection whether to transmit remote power control signal (at slave status) from CH0 to CN4 or to handle it as an interruption.	Output to CN4 : Hardware Interruption : Software	This function is enabled only when CH0, CH1 and CH2 are set for RS422. When set for RS232C, there will be no output to CN4. Setup for output to CN4: Outputs contact signals from outside to the CN4 no. 1 pin. Only the IDT-IV uses CN4. Setup for interruption: As contact signals changes, interruptions will result in the hosts. The register makes it possible to check which CH is ON or OFF. No. 1 pin of CN4 is Open for interruption settings.
SW8	Selection whether to transmit remote power control signal (at slave status) from CH1 to CN4 or to handle it as an interruption.		
SW10	Selection whether to transmit remote power control signal (at slave status) from CH2 to CN4 or to handle it as an interruption.		

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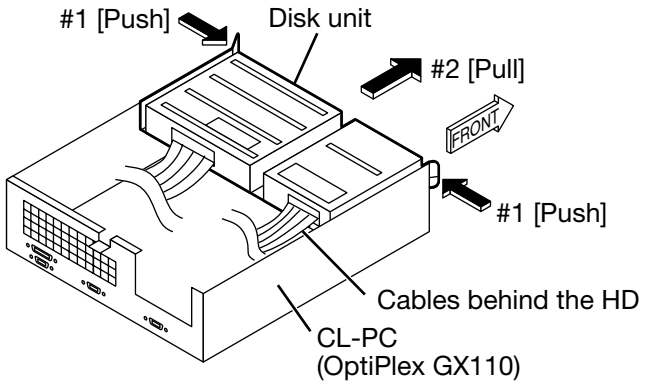
4. Mount a PSI board in the PCI slot.

- For GX110

I. Remove the CL-PC cover.

II. When the card cage is mounted, the PSI board interferes with a cable behind the HD. A workaround is to slightly pull the disk unit on the front of the CL-PC toward you before mounting the card cage.



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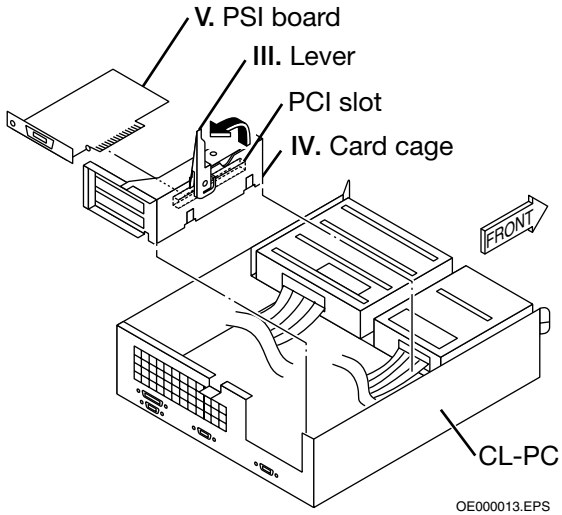
III. Raise the lever as illustrated by the arrow.

IV. Remove the card cage.

V. Mount a PSI board in a PCI slot within the card cage.



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VI. Mount the card cage in the CL-PC.

VII. Restore the disk unit.

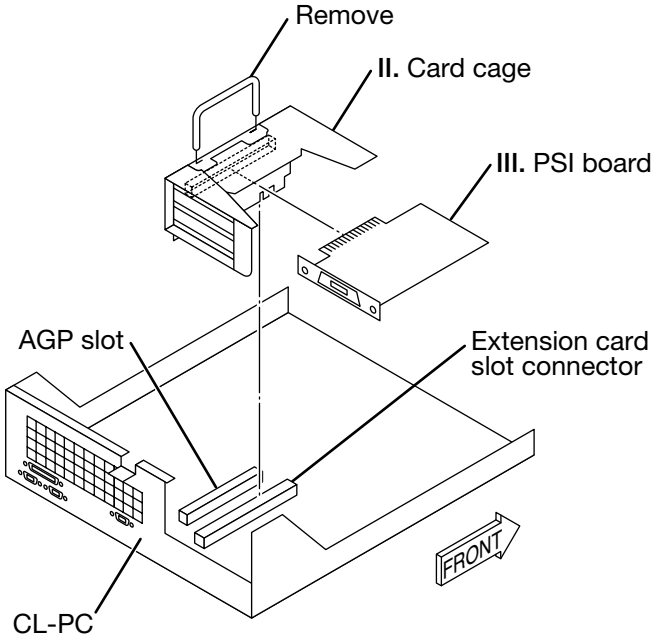
VIII. Reinstall the CL-PC cover.

- For GX150

I. Open the CL-PC cover.

II. Holding the card cage handle, remove the card cage.

III. Mount a PSI board in an empty PCI slot.



IV. Mount the card cage on the CL-PC.

V. Close the CL-PC cover.

5. **Connect the power cable to the PC to start up the CL-PC.**

➔ Within about one minute after Windows 2000 has been started up, the CL-AP will start up. While the CL-AP is being started up, the PSI board driver will be downloaded.

◆ *NOTE* ◆

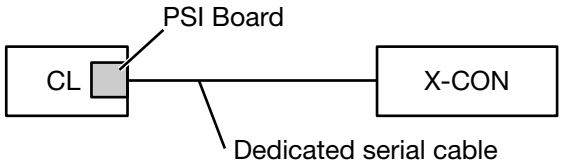
The PSI board driver will be set up automatically after the CL-AP has been started up.

6. **While holding down the <Shift> key, select "Shut Down" in the FUJIFILM menu.**

➔ The system returns to the desktop screen.

1.2 Connecting the Cable

Use a dedicated serial cable to connect the CL to the X-CON.



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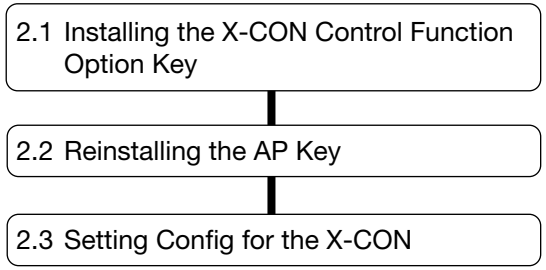
2. Software Setup



OE000044.EPS

2.1 Installing the X-CON Control Function Option Key

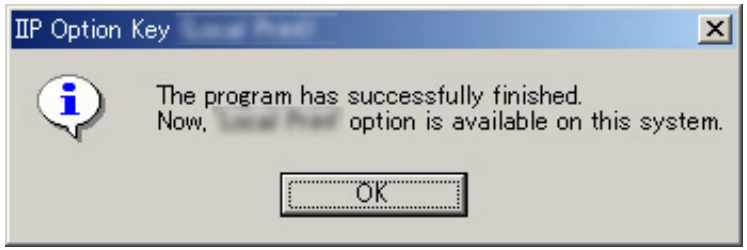
To use the X-CON, the CL X ONLINE option key is needed.

1. **Insert the option key CD into the CD-ROM drive.**

➔ After a while, the installation start window opens.

2. **Click** Continue.

➔ A window opens to indicate the completion of installation.



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3. **Click** OK.

➔ You are then returned to the desktop screen.

4. **Remove the CD from the CD-ROM drive.**

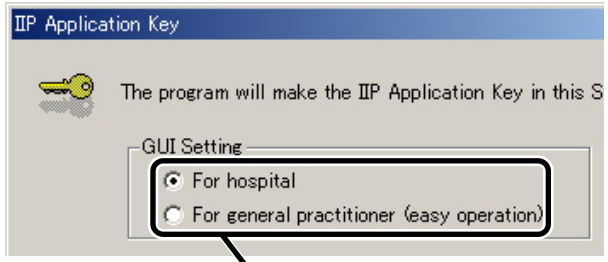
2.2 Reinstalling the AP Key

If an option key is installed, be sure to reinstall the AP key.
Described below is the procedure to be followed to reinstall the AP key using the AP key CD (114Y5342002A: Version A01 or later).

1. **Insert the AP key CD into the CD-ROM drive.**

➔ After a while, the installation start window opens.

2. **Click** Continue.


IIP Application Key
The program will make the IIP Application Key in this S
GUI Setting
For hospital
For general practitioner (easy operation)

Either is grayed out (unselectable).

OE000018.EPS

➥ ***REFERENCE***

- *For hospital : Hospital interface*
- *For general practitioner (easy operation) : General practitioner interface*

➔ A window opens to indicate the completion of installation.

3. **Click** OK.

➔ You are then returned to the desktop screen.

4. **Remove the CD from the CD-ROM drive.**

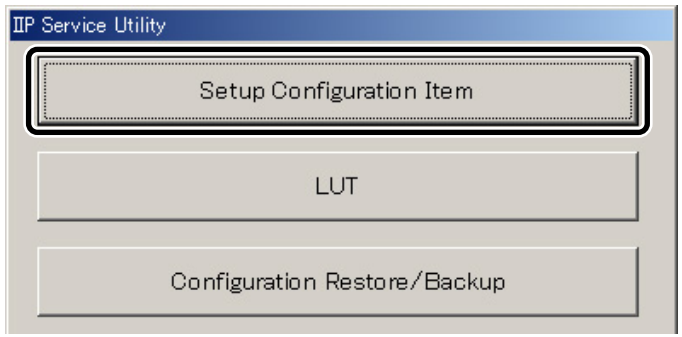
2.3 Setting Config for the X-CON

Set up the following X-CON-related config items.

1. **Start the Service Utility mode.**

☞ For how to start the Service Utility mode, see “1. Starting/ Exiting the Service Utility” under “MU: Maintenance Utility”.

2. **Click [Setup Configuration Item].**



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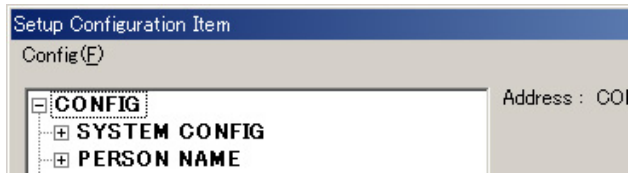
➔ The [Setup Configuration Item] window opens.



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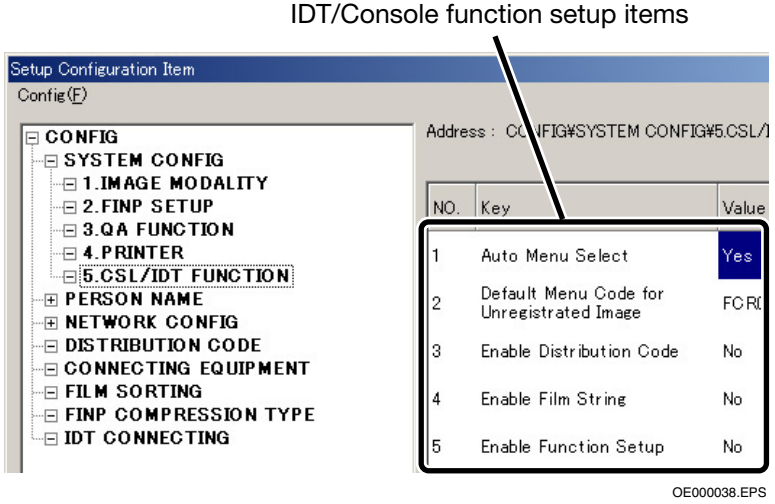
3. **Click 5.CSL/IDT FUNCTION.**

➔ The IDT/Console function setup items will be displayed on the right-hand side of the window.



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4. **Set up the following X-CON-related config items.**

Item	Config Item	Remarks	
42	Timeout value	Setup not required to change.	△
43	Image display caption	Default: XCON	○
44	PSI board serial port number	Number of CH to be inserted into the PSI board connector	○
45	Operating condition reception setting	Default: Receives.	○
46	Exposure condition transmission setting	Default: Not to transmit.	○
47	Minimum tube voltage	Default: 28kV	○
48	Maximum tube voltage	Default: 110kV	○
49	Minimum tube current	Default: 9mA	○
50	Maximum tube current	Default: 400mA	○
51	Minimum irradiation time	Default: 10msec	○
52	Maximum irradiation time	Default: 5400msec	○

○: Essential △: Changed as required.

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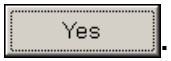
5. **Select “Save” from the “Config (F)” menu.**

➔ A window opens, prompting you to confirm the setup data to be saved.

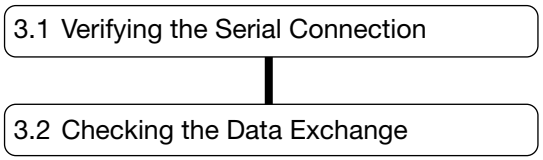
6. **Click** 

.

➔ The setup data will be saved.

3. Verifying the Connection/Data Exchange

After starting up the CL-AP, check if the CL is serially connected to the X-CON correctly and can exchange data with the X-CON.



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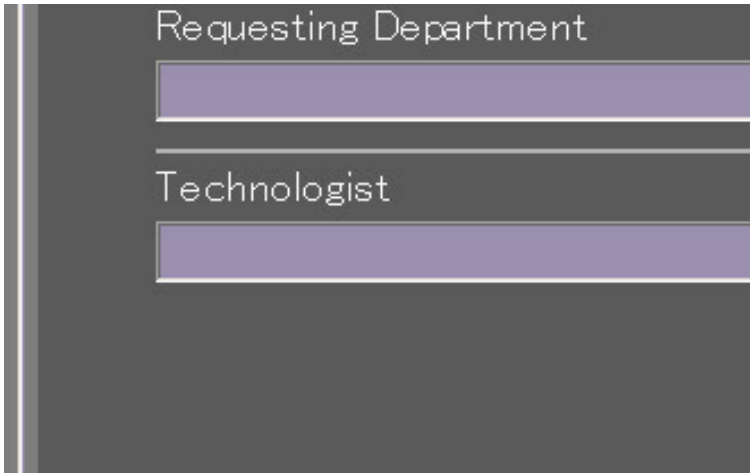
3.1 Verifying the Serial Connection

1. **From the Start menu, sequentially select "Programs", "Fuji Film" and "FCR".**

➔ The CL opening window opens.
After about one minute, the CL-AP reception window opens.



OE000017.EPS

2. **Make sure that characters (default: XCON) indicating that the CL has been serially connected to the XCON are displayed at the bottom of the window.**

When the CL is serially connected to the XCON normally, "XCON" displayed on the window will be highlighted in white on the purple background.
If serial connection between the CL and the XCON is not recognized for any reason, "XCON" will not be highlighted remaining thus in white on the gray background.

3.2 Checking the Data Exchange

Check to see that data can be exchanged with the X-CON as per config settings (CSL/IDT FUNCTION).

❍ If "45. Xcon Performed Info. Reception" in Config "CSL/IDT FUNCTION" is enabled:

X-CON's actual values, such as tube voltage, tube current and irradiation time, will be transferred to the RIS via the CL, after the completion of exposures (the values can also be verified on film).

❍ If "46. Xcon Exposure Info. Transfer" in Config "CSL/IDT FUNCTION" is enabled:

Setup items of the exposure menu, such as tube voltage, tube current and irradiation time, will be reflected on the X-CON during exposures.

◆ *NOTE* ◆

To check if data is exchanged properly during exposures using a cassette, shot X-rays with targeted exposure menus selected accordingly, and then register the IP barcode.

4. Backing Up the Setup File

Back up the CL setup file.
Have the following ready to use for backup.

- Two DOS/V-formatted FDs

☞ For detailed backup procedures, see "5. Restoring/Backing Up the Configuration File - Configuration Restore/Backup" under "MU: Maintenance Utility".

5. X-CON Specifications [Reference]

Item \ Model	DHF-155H (S)	UD150B/B-10 HLZ110 (Tomography)	SUPER 50 CP	Polydros50S	KXO-80F KXO-50F
Communication I/F spec. **Common for semi-duplex and start/stop system.** **According to JIS X-5002.**	RS232C 4800BPS Start: 1bit Data: 8bits Parity: 1bit (even) Stop: 1bit D-sub25p male straight (provided by the maker)	UD150B: RS232C HLZ110: RS422 4800BPS Start: 1bit Data: 8bits Parity: 1bit (even) Stop: 1bit UD150B: D-sub25p male cross (provided by Fuji) HLZ110: D-sub25p male cross (provided by the maker)	RS232C 4800BPS Start: 1bit Data: 8bits Parity: 1bit (even) Stop: 1bit D-sub25p male cross (the same cable as the maker's will be provided by Fuji)	RS232C 4800BPS Start: 1bit Data: 8bits Parity: 1bit (even) Stop: 1bit D-sub25p male cross (provided by Fuji)	RS232C 4800BPS Start: 1bit Data: 8bits Parity: 1bit (even) Stop: 1bit D-sub25p male cross (provided by Fuji)
Function	CL → X-ray exposure conditions setup kVmAms X-ray exposure conditions → actual CL exposure results kVmAms	CL → X-ray exposure conditions setup kVmAms X-ray exposure conditions → actual CL exposure results kVmAms	CL → X-ray exposure conditions setup APR code X-ray exposure conditions → actual CL exposure results kVmAms	CL →X-ray exposure conditions setup Mode selection code X-ray exposure conditions → actual CL exposure results kVmAms	CL → X-ray exposure conditions setup kVmAms X-ray exposure conditions → actual CL exposure results kVmAms KXO 50F is only for X-ray exposure conditions setup → CL
X-ray tube/ technique code	X-ray tube: Fixed at 0. (Select according to the technique.) Techniques 1 to 8 1: General exposure 2: Bucky - 1 3: Bucky - 2 4: AUX1 5: Tomography 6: Spot 7: Continuous exposure 8: AUX2	X-ray tube: Fixed at 0. (Select according to the technique.) Techniques 1 to 5 (8 at max.) 1: Spot 2: Bucky - 1 3: Bucky - 2 4: General exposure 5: Tomography	X-ray tube: Fixed at 0. (Select according to the technique.) Techniques 1 to 9 Reserved	Fixed at 0. Manually selected by the controller.	CL→ X-ray is not effective. Only X-ray→ CL is effective. 00: BUCKY1 01: BUCKY2 02: GEN1/BKY3 03: GEN2 04: TOMO WO.APR 05: TOMO WITH APR 06: MAMMO 07: SPOT 08: SPOT-ATR 09: ANGIO 10: ANGIO WITH KVR
Exposure/ perspective flag	Without perspective flag: Fixed at 0.				
Film-related code	Invalid 00000000				
Maker/model code	11: DHF-155H 10: CR-250 (Perspective/tomography)	01: UD150B 00: HLZ110	30	40	20
Tube voltage (kV)	20~150	20~150	Invalid 0 X-ray→ actual CL result is effective.	Invalid 0 X-ray→ actual CL result is effective.	20~150
Irradiation time (ms)	1~8000	1~8000			3~9999
Tube current (mA)	10~630,1250	10~1000			10~1000 20, 50, 100, 160, 200, 250: Small focus 320, 400, 500, 640, 800: Large focus
ID code	1 to 64, techniques (512 programs in total)	0	1 to 16 or 1 to 32	1~7	0
Reserved 1	mAs mode: 5 to 8000 If mAs mode is not used (normal): 0	0	0	0	0
Reserved 2	Focus size specified 0: Small focus 1000: Large focus	Focus size specified 0: Small focus 1000: Large focus	0	0	0
Film sensitivity	2: Standard	0: Standard	0: Standard	0	0
Detection field	1~4	1~4	1~4		
Film density	3: ± 0 standard	4: ± 0 standard	4: ± 0 standard		

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